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1.960 alpine-baselayout 3.7.0-r0
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1.1076 procps 4.0.4-r3
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1.1108 httplib 0.30.0
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1.1109 google-api-python-client 2.181.0
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1.1 libjpeg 6b

1.1.1 Notifications :

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

1.1.2 Available under license :

The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

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

DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
 install.doc How to configure and install the IJG software.
 usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
  rdjpgcom, and wrjpgcom.
 *.1 Unix-style man pages for programs (same info as usage.doc).
 wizard.doc Advanced usage instructions for JPEG wizards only.
 change.log Version-to-version change highlights.
Programmer and internal
 documentation:
 libjpeg.doc How to use the JPEG library in your own programs.
 example.c Sample code for calling the JPEG library.
 structure.doc Overview of the JPEG library's internal structure.
 filelist.doc Road map of IJG files.
 coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

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

This software implements JPEG baseline, extended-sequential, and progressive

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

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

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

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

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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must acknowledge somewhere in your documentation that
you've used the IJG code.

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sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

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

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

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

We are required to state that
  "The Graphics Interchange Format(c) is the Copyright property of
  CompuServe Incorporated. GIF(sm) is a Service Mark property of
  CompuServe Incorporated."

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

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

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
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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 PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
 notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/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.

1.2 geronimo-jta 1.1.1

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1.3 apache-aries-quiesce-api 1.0.0

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* /ini4j-0-5-4-sources-jar/org/ini4j/InvalidFileFormatException.java
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1.8 commons-math 3.6.1

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"Algorithms", by Ian Craw and John Pulham
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The textbook (containing a proof that the shuffle is uniformly random) is
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1.11 commons-codec 1.11

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1.12 httpcomponents-core 4.4.10

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1.14 commons-beanutils 1.9.4

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1.15 latencyutils 2.0.3

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1.16 alpn-api 1.1.3.v20160715

1.17 kxml 2.3.0

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* /kxml2-2-3-0-sources-jar/org/kxml2/kdom/Node.java
* /kxml2-2-3-0-sources-jar/org/kxml2/io/KXmlSerializer.java
* /kxml2-2-3-0-sources-jar/org/kxml2/wap/WbxmlSerializer.java
* /kxml2-2-3-0-sources-jar/org/kxml2/kdom/Document.java
* /kxml2-2-3-0-sources-jar/org/kxml2/wap/Wbxml.java
* /kxml2-2-3-0-sources-jar/org/kxml2/io/KXmlParser.java
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* IN THE SOFTWARE. */
/** Returns the token ID for start tags or the event type for wap proprietary events
    * such as OPAQUE.
    */

Found in path(s):
* /kxml2-2-3-0-sources-jar/org/kxml2/wap/WbxmlParser.java

1.18 googleapis-common-protos 0.0.3

1.19 kxml 2.2.2

1.19.1 Available under license :

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1.20 objenesis 2.6

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1.21 json-path 2.9.0

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1.23 servlet-api 2.4

1.24 j2objc-annotations 1.3

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* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/Property.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/LoopTranslation.java
*
/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
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1.25 google-auth-library-credentials 0.4.0

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1.27 kryo-parent 4.0.2

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* @author Roman Levenstein <romixlev@gmail.com> */

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* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/ClosureSerializer.java
*

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* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/DefaultClassResolver.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/ClassResolver.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/UnsafeCachedFieldFactory.java
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* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/FastOutput.java
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* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/CompatibleFieldSerializer.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/Serializer.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializerAnnotationsUtil.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/factories/SerializerFactory.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/pool/KryoCallback.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/pool/KryoPoolQueueImpl.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/FastInput.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/UnsafeCacheFields.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/KryoDataOutput.java
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/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/CollectionSerializer.java
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* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/AsmCacheFields.java
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* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/KryoSerializable.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/pool/SoftReferenceQueue.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/DefaultStreamFactory.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/ExternalizableSerializer.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/KryoObjectInput.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/IntArray.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/factories/PseudoSerializerFactory.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/ByteBufferInput.java
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/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/FastestStreamFactory.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/Output.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/Input.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/Util.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/pool/KryoPool.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/ReferenceResolver.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/OutputChunked.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/UnsafeMemoryInput.java

* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializer.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/IdentityObjectIntMap.java
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* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/TaggedFieldSerializer.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializerUnsafeUtil.java
*
/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/StreamFactory.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/VersionFieldSerializer.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/NotNull.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/DefaultArraySerializers.java
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/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/MapReferenceResolver.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/UnsafeInput.java
* /kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/KryoObjectOutput.java
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1.28 kryo 4.0.2

1.29 grpc-context 1.6.0

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1.30 grpc-auth 1.6.0

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  * Converts a Google Auth Library {@link Credentials} to {@link CallCredentials}.
  *
  * <p>Although this is a stable API, note that the returned instance's API is not stable. You are
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  */
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*/
```

Found in path(s):
* /grpc-auth-1-6-0-sources-1-jar/io/grpc/auth/GoogleAuthLibraryCallCredentials.java

1.31 grpc-all 1.6.0

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1.32 javax-interceptor-api 1.2.2

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1.33 bean-validation-api 1.1.0.Final

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/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMax.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/groups/package-info.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolation.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/Validator.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMin.java
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/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintTarget.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/GroupConversionDescriptor.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/spi/package-info.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/executable/package-info.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/package-info.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/package-info.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/package-info.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/Validation.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/TraversableResolver.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Size.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/Valid.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/OverridesAttribute.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/UnexpectedTypeException.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Digits.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Past.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Max.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Pattern.java
*
 /validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/ValidationProviderResolver.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/PropertyDescriptor.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ElementDescriptor.java
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1.44 plexus-interpolation 1.26

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* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnectionFactory.java
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/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Message.java
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* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/package-info.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Options.java
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1.52 osgi-service-obr 1.0.2

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* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
*
/hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/HikariDataSource.java
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* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java
* /hikaricp-3-3-1-sources-1-jar/com/zaxxer/hikari/pool/PoolEntry.java

1.69 xerces-j 2.12.2

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1.74 snake-yaml 2.1

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1.78 commons-validator 1.5.1

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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Max.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ParameterNameProvider.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Pattern.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/NoProviderFoundException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Size.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Email.java
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/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java
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/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

1.80 jakarta-ws-rs-api 2.1.6

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1.81 jakarta-servlet-api 4.0.4

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1.91 hk2-api 2.6.1

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1.93 jakarta-inject 2.6.1

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 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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 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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1.98 servlet-api 5.0.2

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Source Code

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* https://github.com/eclipse-ee4j/servlet-api

* https://github.com/eclipse/jetty.toolchain

Third-party Content

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https://projects.eclipse.org/projects/ee4j.servlet

* jakarta.servlet:jakarta.servlet-api

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1.101 error_prone_annotations 2.5.1

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1.102 xpp 6.5.0

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1.103 asyncio 3.4.3

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1.104 jta 1.2

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* /jta-1-2-sources-4-jar/org/atteo/moonshine/jta/TransactionalInterceptor.java
* /jta-1-2-sources-4-jar/org/atteo/moonshine/jta/Transaction.java
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* /jta-1-2-sources-4-jar/org/atteo/moonshine/jta/TransactionalService.java
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1.105 activation-api 1.2.0

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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java

* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
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 /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/DriverDataSource.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfig.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
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1.111 lmdbjava 0.7.0

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1.112 lmdbjava-native-windows-x86_64 0.9.23-1

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1.115 junit 4.13.2

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1.117 commons-pool 2.11.1

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1.118 commons-dbcp 2.9.0

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None

Cryptography

None

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1.122 importlib-metadata 4.11.1

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1.123 plexus-cipher 2.0

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* $HeadURL: http://juliusdavies.ca/svn/not-yet-commons-ssl/tags/commons-ssl-0.3.10/src/java/org/apache/commons/ssl/Base64.java $
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* $Date$
*
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* /plexus-cipher-2-0-sources-jar/org/sonatype/plexus/components/cipher/PlexusCipher.java
* /plexus-cipher-2-0-sources-jar/org/sonatype/plexus/components/cipher/DefaultPlexusCipher.java
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* /plexus-cipher-2-0-sources-jar/org/sonatype/plexus/components/cipher/PBECipher.java

1.124 bouncycastle-fips 1.0.2.3

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1.125 protoc 3.11.4

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* /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/ProtocVersion.java
* /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/URLSpec.java
* /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/MavenUtil.java
* /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/Protoc.java

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package com.github.os72.protocjar;
```

```
import java.io.BufferedReader;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.FileReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.OutputStream;
import
 java.io.PrintWriter;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class Protoc
{
 public static void main(String[] args) {
  try {
   int exitCode = runProtoc(args);
   System.exit(exitCode);
  }
  catch (Exception e) {
   e.printStackTrace();
  }
 }

 public static int runProtoc(String[] args) throws IOException, InterruptedException {
  String protocVersion = ProtocVersion.PROTOC_VERSION;
  for (String arg : args) {
   String v = sVersionMap.get(arg);
   if (v != null) protocVersion = v;
  }

  log("protoc version: " + protocVersion + ", detected platform: " + getPlatform());
  File protocTemp = extractProtoc(protocVersion);
  int exitCode = runProtoc(protocTemp.getAbsolutePath(), Arrays.asList(args));
  protocTemp.delete();
  return exitCode;
 }

 public static int runProtoc(String cmd, String[] args) throws IOException, InterruptedException {
  return
 runProtoc(cmd, Arrays.asList(args));
 }
```

```
public static int runProtoc(String cmd, List<String> argList) throws IOException, InterruptedException {
 String protocVersion = ProtocVersion.PROTOC_VERSION;
 String javaShadedOutDir = null;

 List<String> protocCmd = new ArrayList<String>();
 protocCmd.add(cmd);
 for (String arg : argList) {
  if (arg.startsWith("--java_shaded_out=")) {
   javaShadedOutDir = arg.split("--java_shaded_out=")[1];
   protocCmd.add("--java_out=" + javaShadedOutDir);
  }
  else {
   String v = sVersionMap.get(arg);
   if (v != null) protocVersion = v; else protocCmd.add(arg);
  }
 }

 extractStdProtos(protocVersion);

 ProcessBuilder pb = new ProcessBuilder(protocCmd);
 log("executing: " + protocCmd);

 Process protoc = pb.start();
 new Thread(new StreamCopier(protoc.getInputStream(), System.out)).start();
 new Thread(new StreamCopier(protoc.getErrorStream(), System.err)).start();
 int exitCode = protoc.waitFor();

 if
(javaShadedOutDir != null) {
  log("shading (version " + protocVersion + "): " + javaShadedOutDir);
  doShading(new File(javaShadedOutDir), protocVersion);
 }

 return exitCode;
}

public static void doShading(File dir, String version) throws IOException {
 if (dir.listFiles() == null) return;
 for (File file : dir.listFiles()) {
  if (file.isDirectory()) {
   doShading(file, version);
  }
  else if (file.getName().endsWith(".java")) {
   //log(file.getPath());
   File tmpFile = null;
   PrintWriter pw = null;
   BufferedReader br = null;
   try {
```

```
    tmpFile = File.createTempFile(file.getName(), null);
    pw = new PrintWriter(tmpFile);
    br = new BufferedReader(new FileReader(file));
    String line;
    while ((line = br.readLine()) != null) {
     pw.println(line.replace("com.google.protobuf", "com.github.os72.protobuf" + version));
    }
    pw.close();
    br.close();
    file.delete();
    tmpFile.renameTo(file);
   }
   finally
{
    if (br != null) { try {br.close();} catch (Exception e) {} }
    if (pw != null) { try {pw.close();} catch (Exception e) {} }
   }
  }
 }
}

static File extractProtoc(String protocVersion) throws IOException {
 String protocFilePath = "bin_" + protocVersion;
 String resourcePath = null; // for jar
 String filePath = null; // for test

 String osName = System.getProperty("os.name").toLowerCase();
 String osArch = System.getProperty("os.arch").toLowerCase();
 if (osName.startsWith("win")) {
  filePath = protocFilePath + "/win32/protoc.exe";
 }
 else if (osName.startsWith("linux") && osArch.contains("64")) {
  filePath = protocFilePath + "/linux/protoc";
 }
 else if (osName.startsWith("mac") && osArch.contains("64")) {
  filePath = protocFilePath + "/mac/protoc";
 }
 else {
  throw new IOException("Unsupported platform: " + getPlatform());
 }
 resourcePath = "/" + filePath;

 FileOutputStream
os = null;
 InputStream is = Protoc.class.getResourceAsStream(resourcePath);
 if (is == null) is = new FileInputStream(filePath);

 File temp = null;
```

```
 try {
  temp = File.createTempFile("protoc", ".exe");
  os = new FileOutputStream(temp);
  streamCopy(is, os);
 }
 finally {
  if (is != null) is.close();
  if (os != null) os.close();
 }
 temp.setExecutable(true);
 temp.deleteOnExit();
 return temp;
}

static File extractStdProtos(String protocVersion) throws IOException {
 InputStream is = Protoc.class.getResourceAsStream("/include/google/protobuf/any.proto");
 log("is: " + is);
 if (is == null) is = new FileInputStream("include/google/protobuf/any.proto");
 BufferedReader br = new BufferedReader(new InputStreamReader(is));
 String line;
 while ((line = br.readLine()) != null) {
  log("file: " + line);
 }
 br.close();
 return null;
}

static void streamCopy(InputStream in, OutputStream out) throws IOException {
 int read
= 0;
 byte[] buf = new byte[4096];
 while ((read = in.read(buf)) > 0) out.write(buf, 0, read);
}

static String getPlatform() {
 return System.getProperty("os.name").toLowerCase() + "/" + System.getProperty("os.arch").toLowerCase();
}

static void log(String msg) {
 System.out.println("protoc-jar: " + msg);
}

static class StreamCopier implements Runnable
{
 public StreamCopier(InputStream in, OutputStream out) {
  mIn = in;
  mOut = out;
 }
```

```
 public void run() {
  try {
   streamCopy(mIn, mOut);
  }
  catch (IOException e) {
   e.printStackTrace();
  }
 }

 private InputStream mIn;
 private OutputStream mOut;
}

 static Map<String,String> sVersionMap = new HashMap<String,String>();
 static {
  sVersionMap.put("-v3.0.0", "300");
  sVersionMap.put("-v2.6.1", "261");
  sVersionMap.put("-v2.5.0", "250");
  sVersionMap.put("-v2.4.1", "241");
  sVersionMap.put("-v300", "300");
  sVersionMap.put("-v261", "261");
  sVersionMap.put("-v250",
 "250");
  sVersionMap.put("-v241", "241");
 }
}
```

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* /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/Protoc.java.stdprotos
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*/
package com.github.os72.protocjar;
```

```
import java.io.BufferedReader;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.FileReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.io.PrintWriter;
import
 java.net.URL;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
import java.util.Properties;

public class Protoc
{
 public static void main(String[] args) {
  try {
   int exitCode = runProtoc(args);
   System.exit(exitCode);
  }
  catch (Exception e) {
   e.printStackTrace();
  }
 }

 public static int runProtoc(String[] args) throws IOException, InterruptedException {
  ProtocVersion protocVersion = ProtocVersion.PROTOC_VERSION;
  boolean includeStdTypes = false;
  for (String arg : args) {
   ProtocVersion v = getVersion(arg);
   if (v != null) protocVersion = v;
   if (arg.equals("--include_std_types")) includeStdTypes = true;
  }

  File protocTemp = extractProtoc(protocVersion, includeStdTypes);
  int exitCode = runProtoc(protocTemp.getAbsolutePath(), Arrays.asList(args));
  protocTemp.delete();
  return exitCode;
 }

 public static int runProtoc(String cmd, String[] args) throws IOException, InterruptedException {
  return
 runProtoc(cmd, Arrays.asList(args));
  }
```

```
public static int runProtoc(String cmd, List<String> argList) throws IOException, InterruptedException {
 ProtocVersion protocVersion = ProtocVersion.PROTOC_VERSION;
 String javaShadedOutDir = null;

 List<String> protocCmd = new ArrayList<String>();
 protocCmd.add(cmd);
 for (String arg : argList) {
  if (arg.startsWith("--java_shaded_out=")) {
   javaShadedOutDir = arg.split("--java_shaded_out=")[1];
   protocCmd.add("--java_out=" + javaShadedOutDir);
  }
  else if (arg.equals("--include_std_types")) {
   File stdTypeDir = new File(new File(cmd).getParentFile().getParentFile(), "include");
   protocCmd.add("-I" + stdTypeDir.getAbsolutePath());
  }
  else {
   ProtocVersion v = getVersion(arg);
   if (v != null) protocVersion = v; else protocCmd.add(arg);
  }
 }

 Process protoc = null;
 int numTries = 1;
 while (protoc == null) {
  try {
   log("executing: " + protocCmd);
   ProcessBuilder
pb = new ProcessBuilder(protocCmd);
   protoc = pb.start();
  }
  catch (IOException ioe) {
   if (numTries++ >= 3) throw ioe;
   log("caught exception, retrying: " + ioe);
   Thread.sleep(1000);
  }
 }

 new Thread(new StreamCopier(protoc.getInputStream(), System.out)).start();
 new Thread(new StreamCopier(protoc.getErrorStream(), System.err)).start();
 int exitCode = protoc.waitFor();

 if (javaShadedOutDir != null) {
  log("shading (version " + protocVersion + "): " + javaShadedOutDir);
  doShading(new File(javaShadedOutDir), protocVersion.mVersion);
 }

 return exitCode;
```

```
}

public static void doShading(File dir, String version) throws IOException {
 if (dir.listFiles() == null) return;
 for (File file : dir.listFiles()) {
  if (file.isDirectory()) {
   doShading(file, version);
  }
  else if (file.getName().endsWith(".java")) {
   //log(file.getPath());
   File tmpFile = null;
   PrintWriter pw = null;
   BufferedReader
br = null;
   try {
    tmpFile = File.createTempFile(file.getName(), null);
    pw = new PrintWriter(tmpFile);
    br = new BufferedReader(new FileReader(file));
    String line;
    while ((line = br.readLine()) != null) {
     pw.println(line.replace("com.google.protobuf", "com.github.os72.protobuf" + version));
    }
    pw.close();
    br.close();
    file.delete();
    tmpFile.renameTo(file);
   }
   finally {
    if (br != null) { try {br.close();} catch (Exception e) {} }
    if (pw != null) { try {pw.close();} catch (Exception e) {} }
   }
  }
 }
}

public static File extractProtoc(ProtocVersion protocVersion) throws IOException {
 log("protoc version: " + protocVersion + ", detected platform: " + getPlatform());

 String srcFilePath = null;
 if (protocVersion.mArtifact == null) { // extract embedded protoc
  String binVersionDir = "bin_" + protocVersion;
  String osName = System.getProperty("os.name").toLowerCase();
  String
osArch = System.getProperty("os.arch").toLowerCase();
  if (osName.startsWith("win")) {
   srcFilePath = binVersionDir + "/win32/protoc.exe";
  }
  else if (osName.startsWith("linux") && osArch.contains("64")) {
```

```
  srcFilePath = binVersionDir + "/linux/protoc";
 }
 else if (osName.startsWith("mac") && osArch.contains("64")) {
  srcFilePath = binVersionDir + "/mac/protoc";
 }
 else {
  throw new IOException("Unsupported platform: " + getPlatform());
 }
}
else { // download protoc from maven central
 srcFilePath = downloadProtoc(protocVersion).getAbsolutePath();
}

File tmpDir = File.createTempFile("protocjar", "");
tmpDir.delete(); tmpDir.mkdirs();
tmpDir.deleteOnExit();
File binDir = new File(tmpDir, "bin");
binDir.mkdirs();
binDir.deleteOnExit();

File protocTemp = new File(binDir, "protoc.exe");
populateFile(srcFilePath, protocTemp);
protocTemp.setExecutable(true);
protocTemp.deleteOnExit();
return
protocTemp;
}

public static File extractProtoc(ProtocVersion protocVersion, boolean includeStdTypes) throws IOException {
File protocTemp = extractProtoc(protocVersion);
if (!includeStdTypes) return protocTemp;

File tmpDir = protocTemp.getParentFile().getParentFile();
File tmpDirProtos = new File(tmpDir, "include/google/protobuf");
tmpDirProtos.mkdirs();
tmpDirProtos.getParentFile().getParentFile().deleteOnExit();
tmpDirProtos.getParentFile().deleteOnExit();
tmpDirProtos.deleteOnExit();

for (String srcFilePath : sStdTypes) {
 File tmpFile = new File(tmpDir, srcFilePath);
 populateFile(srcFilePath, tmpFile);
 tmpFile.deleteOnExit();
}

return protocTemp;
}
```

```
public static File downloadProtoc(ProtocVersion protocVersion) throws IOException {
 Properties detectorProps = new Properties();
 new PlatformDetector().detect(detectorProps, null);
 String platform = detectorProps.getProperty("os.detected.classifier");

 String
exeName = protocVersion.mGroup.replace(".", "/") + "/" +
   protocVersion.mArtifact + "/" + protocVersion.mVersion + "/" +
   protocVersion.mArtifact + "-" + protocVersion.mVersion + "-" + platform + ".exe";

 File tmpFile = File.createTempFile("protocjar", ".exe");
 File exeFile = new File(tmpFile.getParentFile(), "protocjar.webcache/" + exeName);
 exeFile.getParentFile().mkdirs();
 if (!exeFile.exists()) {
  URL exeUrl = new URL("http://central.maven.org/maven2/" + exeName);
  log("downloading: " + exeUrl);

  InputStream is = null;
  FileOutputStream os = null;
  try {
   is = exeUrl.openStream();
   os = new FileOutputStream(tmpFile);
   streamCopy(is, os);
   is.close();
   os.close();
   tmpFile.renameTo(exeFile);
  }
  catch (IOException e) {
   tmpFile.delete();
   throw e;
  }
  finally {
   if (is != null) is.close();
   if (os != null) os.close();
  }
 }

 log("cached:
" + exeFile);
 return exeFile;
}

public static File populateFile(String srcFilePath, File destFile) throws IOException {
 String resourcePath = "/" + srcFilePath; // resourcePath for jar, srcFilePath for test

 FileOutputStream os = null;
 InputStream is = Protoc.class.getResourceAsStream(resourcePath);
 if (is == null) is = new FileInputStream(srcFilePath);
```

```
 try {
  os = new FileOutputStream(destFile);
  streamCopy(is, os);
 }
 finally {
  if (is != null) is.close();
  if (os != null) os.close();
 }

 return destFile;
}

public static void streamCopy(InputStream in, OutputStream out) throws IOException {
 int read = 0;
 byte[] buf = new byte[4096];
 while ((read = in.read(buf)) > 0) out.write(buf, 0, read);
}

static ProtocVersion getVersion(String spec) {
 return ProtocVersion.getVersion(spec);
}

static String getPlatform() {
 return System.getProperty("os.name").toLowerCase() + "/" + System.getProperty("os.arch").toLowerCase();
}

static
void log(String msg) {
 System.out.println("protoc-jar: " + msg);
}

static class StreamCopier implements Runnable
{
 public StreamCopier(InputStream in, OutputStream out) {
  mIn = in;
  mOut = out;
 }

 public void run() {
  try {
   streamCopy(mIn, mOut);
  }
  catch (IOException e) {
   e.printStackTrace();
  }
 }
```

```
 private InputStream mIn;
 private OutputStream mOut;
}

static String[] sStdTypes = {
 "include/google/protobuf/any.proto",
 "include/google/protobuf/api.proto",
 "include/google/protobuf/descriptor.proto",
 "include/google/protobuf/duration.proto",
 "include/google/protobuf/empty.proto",
 "include/google/protobuf/field_mask.proto",
 "include/google/protobuf/source_context.proto",
 "include/google/protobuf/struct.proto",
 "include/google/protobuf/timestamp.proto",
 "include/google/protobuf/type.proto",
 "include/google/protobuf/wrappers.proto",
};
}
```

Found in path(s):

```
*
 /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/Protoc - Copy.javax
```

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```
/*
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*/

package com.github.os72.protocjar;

import java.io.BufferedReader;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.FileReader;
import java.io.IOException;
```

```
import java.io.InputStream;
import java.io.OutputStream;
import java.io.PrintWriter;
import
 java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class Protoc
{
 public static void main(String[] args) {
  try {
   int exitCode = runProtoc(args);
   System.exit(exitCode);
  }
  catch (Exception e) {
   e.printStackTrace();
  }
 }

 public static int runProtoc(String[] args) throws IOException, InterruptedException {
  return runProtoc(args, System.out, System.err);
 }
 public static int runProtoc(String[] args, OutputStream out, OutputStream err) throws IOException,
InterruptedException {
  String protocVersion = ProtocVersion.PROTOC_VERSION;
  for (String arg : args) {
   String v = sVersionMap.get(arg);
   if (v != null) protocVersion = v;
  }

  log("protoc version: " + protocVersion + ", detected platform: " + getPlatform());
  File protocTemp = extractProtoc(protocVersion);
  if (protocTemp != null) {
   int exitCode = runProtoc(protocTemp.getAbsolutePath(), Arrays.asList(args),
 out, err);
   protocTemp.delete();
   return exitCode;
  }
  else {
   if (false) throw new IOException("Unsupported platform: " + getPlatform()); // TODO: if proxy not wanted
   return runProtoc(null, Arrays.asList(args), out, err);
  }
 }

 public static int runProtoc(String cmd, String[] args) throws IOException, InterruptedException {
```

```
 return runProtoc(cmd, Arrays.asList(args));
}

public static int runProtoc(String cmd, List<String> argList) throws IOException, InterruptedException {
 return runProtoc(cmd, argList, System.out, System.err);
}
public static int runProtoc(String cmd, List<String> argList, OutputStream out, OutputStream err) throws
IOException, InterruptedException {
 String protocVersion = ProtocVersion.PROTOC_VERSION;
 String javaShadedOutDir = null;

 List<String> protocCmd = new ArrayList<String>();
 if (cmd != null) protocCmd.add(cmd);
 for (String arg : argList) {
  if (arg.startsWith("--java_shaded_out=")) {
   javaShadedOutDir
= arg.split("--java_shaded_out=")[1];
   protocCmd.add("--java_out=" + javaShadedOutDir);
  }
  else {
   String v = sVersionMap.get(arg);
   if (v != null) protocVersion = v;
   if (v == null || cmd == null) protocCmd.add(arg);
  }
 }

 int exitCode;
 if (cmd != null) {
  log("executing: " + protocCmd);
  ProcessBuilder pb = new ProcessBuilder(protocCmd);
  Process protoc = pb.start();
  new Thread(new StreamCopier(protoc.getInputStream(), out)).start();
  new Thread(new StreamCopier(protoc.getErrorStream(), err)).start();
  exitCode = protoc.waitFor();
 }
 else {
  exitCode = ProtocProxy.runRemote(protocCmd, out, err);
 }

 if (javaShadedOutDir != null) {
  log("shading (version " + protocVersion + "): " + javaShadedOutDir);
  doShading(new File(javaShadedOutDir), protocVersion);
 }

 return exitCode;
}

public static void doShading(File dir, String version) throws IOException {
```

```
 if (dir.listFiles()
== null) return;
 for (File file : dir.listFiles()) {
  if (file.isDirectory()) {
   doShading(file, version);
  }
  else if (file.getName().endsWith(".java")) {
   //log(file.getPath());
   File tmpFile = null;
   PrintWriter pw = null;
   BufferedReader br = null;
   try {
    tmpFile = File.createTempFile(file.getName(), null);
    pw = new PrintWriter(tmpFile);
    br = new BufferedReader(new FileReader(file));
    String line;
    while ((line = br.readLine()) != null) {
     pw.println(line.replace("com.google.protobuf", "com.github.os72.protobuf" + version));
    }
    pw.close();
    br.close();
    file.delete();
    tmpFile.renameTo(file);
   }
   finally {
    if (br != null) { try {br.close();} catch (Exception e) {} }
    if (pw != null) { try {pw.close();} catch (Exception e) {} }
   }
  }
 }
}

static File extractProtoc(String protocVersion) throws IOException {
 if (true) return null;

 String protocFilePath
= "bin_" + protocVersion;
 String resourcePath = null; // for jar
 String filePath = null; // for test

 String osName = System.getProperty("os.name").toLowerCase();
 String osArch = System.getProperty("os.arch").toLowerCase();
 if (osName.startsWith("win")) {
  filePath = protocFilePath + "/win32/protoc.exe";
 }
 else if (osName.startsWith("linux") && osArch.contains("64")) {
  filePath = protocFilePath + "/linux/protoc";
 }
```

```
 else if (osName.startsWith("mac") && osArch.contains("64")) {
  filePath = protocFilePath + "/mac/protoc";
 }
 else {
  //throw new IOException("Unsupported platform: " + getPlatform());
  return null;
 }
 resourcePath = "/" + filePath;

 FileOutputStream os = null;
 InputStream is = Protoc.class.getResourceAsStream(resourcePath);
 if (is == null) is = new FileInputStream(filePath);

 File temp = null;
 try {
  temp = File.createTempFile("protoc", ".exe");
  os = new FileOutputStream(temp);
  streamCopy(is,
os);
 }
 finally {
  if (is != null) is.close();
  if (os != null) os.close();
 }
 temp.setExecutable(true);
 temp.deleteOnExit();
 return temp;
}

static void streamCopy(InputStream in, OutputStream out) throws IOException {
 int read = 0;
 byte[] buf = new byte[4096];
 while ((read = in.read(buf)) > 0) out.write(buf, 0, read);
}

static String getPlatform() {
 return System.getProperty("os.name").toLowerCase() + "/" + System.getProperty("os.arch").toLowerCase();
}

static void log(Object msg) {
 System.out.println("protoc-jar: " + msg);
}

static class StreamCopier implements Runnable
{
 public StreamCopier(InputStream in, OutputStream out) {
  mIn = in;
  mOut = out;
```

```
 }

 public void run() {
  try {
   streamCopy(mIn, mOut);
  }
  catch (IOException e) {
   e.printStackTrace();
  }
 }

 private InputStream mIn;
 private OutputStream mOut;
}

static Map<String,String> sVersionMap = new
HashMap<String,String>();
static {
 sVersionMap.put("-v3.0.0", "300");
 sVersionMap.put("-v2.6.1", "261");
 sVersionMap.put("-v2.5.0", "250");
 sVersionMap.put("-v2.4.1", "241");
 sVersionMap.put("-v300", "300");
 sVersionMap.put("-v261", "261");
 sVersionMap.put("-v250", "250");
 sVersionMap.put("-v241", "241");
}
}
```

Found in path(s):
* /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/Protoc.java.proxy
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```
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```

Found in path(s):
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/duration.proto
* /protoc-jar-3-11-4-sources-jar/proto2/include/google/protobuf/descriptor.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/compiler/plugin.proto

* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/any.proto
*
 /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/empty.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/timestamp.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/api.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/type.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/descriptor.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/wrappers.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/field_mask.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/source_context.proto
* /protoc-jar-3-11-4-sources-jar/proto3/include/google/protobuf/struct.proto
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/*
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*
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*/

Found in path(s):
* /protoc-jar-3-11-4-sources-jar/com/github/os72/protocjar/PlatformDetector.java

1.126 jline-builtins 3.21.0

1.126.1 Available under license :

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* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/Commands.java
* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/Styles.java
* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/Nano.java
* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/Completers.java
* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/TTop.java
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*/
```

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*/
/**
* Based on http://antony.lesuisse.org/software/ajaxterm/
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*/
```

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* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/ScreenTerminal.java
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* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/ConsoleOptionGetter.java
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* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/Tmux.java
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* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/InputRC.java
* /jline-builtins-3-21-0-sources-jar/org/jline/builtins/NfaMatcher.java

1.127 jline-style 3.21.0

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* /jline-style-3-21-0-sources-jar/org/jline/style/NopStyleSource.java
* /jline-style-3-21-0-sources-jar/org/jline/style/StyledWriter.java
* /jline-style-3-21-0-sources-jar/org/jline/style/StyleResolver.java
* /jline-style-3-21-0-sources-jar/org/jline/style/MemoryStyleSource.java
* /jline-style-3-21-0-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-style-3-21-0-sources-jar/org/jline/style/StyleColor.java
* /jline-style-3-21-0-sources-jar/org/jline/style/StyleBundle.java
* /jline-style-3-21-0-sources-jar/org/jline/style/InterpolationHelper.java
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* /jline-style-3-21-0-sources-jar/org/jline/style/StyleFactory.java

* /jline-style-3-21-0-sources-jar/org/jline/style/StyleSource.java
* /jline-style-3-21-0-sources-jar/org/jline/style/Styler.java
* /jline-style-3-21-0-sources-jar/org/jline/style/StyleExpression.java

1.128 jansi 2.4.0

1.128.1 Available under license :

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: jansi
Specification-Version: 2.4
Specification-Vendor: FuseSource, Corp.
Implementation-Title: jansi
Implementation-Version: 2.4.0
Implementation-Vendor: FuseSource, Corp.
Automatic-Module-Name: org.fusesource.jansi
Bundle-Description: Jansi is a java library for generating and interpret
ing ANSI escape sequences.
Bundle-DocURL: http://fusesource.com/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: jansi
Bundle-SymbolicName: org.fusesource.jansi
Bundle-Vendor: FuseSource, Corp.
Bundle-Version: 2.4.0
Export-Package: org.fusesource.jansi;uses:="org.fusesource.jansi.io";ver
sion="2.4.0",org.fusesource.jansi.internal;version="2.4.0",org.fusesour
ce.jansi.io;uses:="org.fusesource.jansi";version="2.4.0"
Main-Class: org.fusesource.jansi.AnsiMain
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /jansi-2-4-0-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /jansi-2-4-0-jar/META-INF/maven/org.fusesource.jansi/jansi/pom.xml

1.129 jline-terminal-jna 3.21.0

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Found in path(s):
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Found in path(s):
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java

*
/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
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* /jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
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1.130 jline-terminal 3.21.0

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```

Found in path(s):
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/Status.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/InfoCmp.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractPty.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
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lightsteelblue
yellow3
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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
grey27
grey30

grey35
grey39
grey42
grey46
grey50
grey54
grey58
grey62
grey66
grey70
grey74
grey78
grey82
grey85
grey89
grey93

Found
in path(s):
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/colors.txt
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Found in path(s):
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/AttributedCharSequence.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/TerminalBuilder.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/AttributedStyle.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
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Found in path(s):

* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/package-info.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/Levenshtein.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/ShutdownHooks.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/Cursor.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/ExecHelper.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/OSUtils.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/spi/Pty.java
*
 /jline-terminal-3-21-0-sources-jar/org/jline/utils/package-info.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/DiffHelper.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/MouseSupport.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/ExecPty.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/InputStreamReader.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/MouseEvent.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/WCWidth.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/ClosedException.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/AttributedString.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/Attributes.java
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* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/Terminal.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlocking.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/Curses.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/StyleResolver.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
*
 /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/Size.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingReader.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/Colors.java

* /jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
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* /jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/WriterOutputStream.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/PumpReader.java
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* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/spi/JansiSupport.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/Signals.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/Display.java
* /jline-terminal-3-21-0-sources-jar/org/jline/utils/Log.java
* /jline-terminal-3-21-0-sources-jar/org/jline/terminal/spi/JnaSupport.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
micro_line_size, mls, Yg
number_of_pins, npins, Yh
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, el1, 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
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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
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key_il, kil1, kA
key_left, kcub1, kl
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, kprt, %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
key_seol, kEOL, *8
key_sexit, kEXT, *9
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key_sfind, kFND, *0
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key_shome, kHOM, #2
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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
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
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, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
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, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
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

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* /jline-terminal-3-21-0-sources-jar/org/jline/utils/capabilities.txt

1.131 jline-terminal-jansi 3.21.0

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* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
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* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java
* /jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java

1.132 jline-reader 3.21.0

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* /jline-reader-3-21-0-sources-jar/org/jline/reader/LineReader.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/DefaultHighlighter.java

* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/PrintAboveWriter.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/LineReaderImpl.java
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* /jline-reader-3-21-0-sources-jar/org/jline/reader/Highlighter.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/Candidate.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
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* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/BufferImpl.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/Buffer.java
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* /jline-reader-3-21-0-sources-jar/org/jline/reader/EndOfFileException.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/LineReaderBuilder.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/Parser.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/DefaultParser.java
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* /jline-reader-3-21-0-sources-jar/org/jline/reader/Completer.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/CompletingParsedLine.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/KillRing.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/ParsedLine.java
* /jline-reader-3-21-0-sources-jar/org/jline/keymap/BindingReader.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java
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* /jline-reader-3-21-0-sources-jar/org/jline/reader/Binding.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/history/package-info.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/package-info.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/Expander.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/Macro.java
*
 /jline-reader-3-21-0-sources-jar/org/jline/reader/UserInterruptException.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/Widget.java
* /jline-reader-3-21-0-sources-jar/org/jline/keymap/KeyMap.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/package-info.java
* /jline-reader-3-21-0-sources-jar/org/jline/reader/Reference.java
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1.133 metrics 3.2.5

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* /metrics-3-2-5-sources-1-jar/com/tomtom/speedtools/metrics/MetricsData.java
* /metrics-3-2-5-sources-1-jar/com/tomtom/speedtools/metrics/MultiMetricsCollector.java
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1.134 asm 9.3

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* /asm-9-3-sources-jar/org/objectweb/asm/ClassTooLargeException.java
* /asm-9-3-sources-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-9-3-sources-jar/org/objectweb/asm/Attribute.java
*
 /asm-9-3-sources-jar/org/objectweb/asm/ClassReader.java
* /asm-9-3-sources-jar/org/objectweb/asm/Edge.java
* /asm-9-3-sources-jar/org/objectweb/asm/MethodTooLargeException.java
* /asm-9-3-sources-jar/org/objectweb/asm/ConstantDynamic.java
* /asm-9-3-sources-jar/org/objectweb/asm/ClassWriter.java
* /asm-9-3-sources-jar/org/objectweb/asm/Opcodes.java
* /asm-9-3-sources-jar/org/objectweb/asm/TypePath.java
* /asm-9-3-sources-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-3-sources-jar/org/objectweb/asm/Handle.java
* /asm-9-3-sources-jar/org/objectweb/asm/SymbolTable.java
* /asm-9-3-sources-jar/org/objectweb/asm/Constants.java
* /asm-9-3-sources-jar/org/objectweb/asm/TypeReference.java
* /asm-9-3-sources-jar/org/objectweb/asm/MethodWriter.java
* /asm-9-3-sources-jar/org/objectweb/asm/CurrentFrame.java
* /asm-9-3-sources-jar/org/objectweb/asm/Context.java
* /asm-9-3-sources-jar/org/objectweb/asm/RecordComponentVisitor.java
* /asm-9-3-sources-jar/org/objectweb/asm/FieldWriter.java
* /asm-9-3-sources-jar/org/objectweb/asm/Label.java
*
 /asm-9-3-sources-jar/org/objectweb/asm/Type.java
* /asm-9-3-sources-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-9-3-sources-jar/org/objectweb/asm/RecordComponentWriter.java
* /asm-9-3-sources-jar/org/objectweb/asm/ModuleWriter.java
* /asm-9-3-sources-jar/org/objectweb/asm/Symbol.java

* /asm-9-3-sources-jar/org/objectweb/asm/Handler.java
* /asm-9-3-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-9-3-sources-jar/org/objectweb/asm/Frame.java
* /asm-9-3-sources-jar/org/objectweb/asm/ModuleVisitor.java
* /asm-9-3-sources-jar/org/objectweb/asm/ByteVector.java
* /asm-9-3-sources-jar/org/objectweb/asm/FieldVisitor.java
* /asm-9-3-sources-jar/org/objectweb/asm/AnnotationVisitor.java

1.135 plexus-sec-dispatcher 2.0

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* /plexus-sec-dispatcher-2-0-sources-jar/org/sonatype/plexus/components/sec/dispatcher/SecUtil.java
* /plexus-sec-dispatcher-2-0-sources-
jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcherException.java
* /plexus-sec-dispatcher-2-0-sources-jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcher.java
*
/plexus-sec-dispatcher-2-0-sources-jar/org/sonatype/plexus/components/sec/dispatcher/PasswordDecryptor.java
* /plexus-sec-dispatcher-2-0-sources-jar/org/sonatype/plexus/components/sec/dispatcher/DefaultSecDispatcher.java

1.136 jakarta-transaction-api 2.0.1

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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Positive.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Valid.java

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/OverridesAttribute.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableType.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodType.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerDescriptor.java

1.140 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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Source Code

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* https://github.com/eclipse-ee4j/common-annotations-api

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1.150 proto-google-common-protos 2.9.0

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1.151 maven-artifact 3.8.6

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1.153 ecj 3.26.0

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*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
**********/

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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java
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*     Stephan Herrmann - Contribution for
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*******************************************************************************/
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayTypeReference.java
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 *         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*         bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug
 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*         Bug 426792 - [1.8][inference][impl] generify new type inference engine
*         Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 431581 - Eclipse compiles what it should not
*         Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*         Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*         Bug 446442 - [1.8] merge null annotations from
 super methods
*         Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*         Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*      Jesper S Moller - Contributions for
*         bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*         bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*         bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*     Sebastian Zarnekow - Contributions
```

for
*   bug 544921 - [performance] Poor performance with large source files
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBinding.java
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*   Stephan Herrmann - Contribution for
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java
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*   bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*   bug 368546 - [compiler][resource] Avoid

```
 remaining false positives found when compiling the Eclipse SDK
*       bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
**********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConstructorDeclaration.java
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*       Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       Bug 388630 - @NonNull diagnostics at line 0
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
 *     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                         Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*                         Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
*******************************************************************************/
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* Contributors:
*    wharley@bea.com - initial API and implementation
*    philippe.marschall@netcetera.ch - Fix for 338370
*    IBM Corporation - Fix for validating relative name
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/BatchCompilerRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
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*     Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*          bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*          bug 292478 - Report potentially null across variable assignment
*       bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
```

```
*       bug 354554 - [null] conditional with redundant condition
 yields weak error message
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java
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*     Jesper Steen Moller - Contributions for:
*          Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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*   bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
***/

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in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java
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*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*   Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 434556 - Broken class file generated for incorrect annotation usage
*   Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*   Stephan Herrmann - Contribution for
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Olivier Tardieu tardieu@us.ibm.com - Contributions for
*   Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFile.java
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* Contributors:
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
**********/

Found in path(s):

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java
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*   Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
*   Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*   Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*   Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*   Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*   Bug 446442 - [1.8] merge null annotations from super methods
*   Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*   Jesper S Moller - Contributions for

*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*   bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*   Till Brychcy - Contributions for
*   bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
**********/

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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Stephan Herrmann - Contribution for
*   Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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*        Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 358903 - Filter practically unimportant resource leak warnings
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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*   bug 384380 - False positive on a "Potential null pointer access" after a continue
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
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*     Stephan Herrmann - Contributions for
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*         Bug 440282 - [resource] Resource leak detection false negative with empty finally block
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Block.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java

*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*         bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*         bug 390883 - [1.8][compiler] Unable to override default method
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*         bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*         bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*         bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*         bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*         bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*         Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*         Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *         Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*         Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 446442 - [1.8] merge null annotations from super methods
*******************************************************************************/
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 364890 - BinaryTypeBinding should use char constants from Util
*         bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 388800 - [1.8][compiler] detect default methods in class files
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*         Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*         Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*         Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*         Bug 454182 - Internal compiler error when using
 1.8 compliance for simple project
*         Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*         Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
*     Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Sebastian Zarnekow - Contributions for
*         bug 544921 - [performance] Poor performance with large source files
*     Alexander Lehmann - Contributions for
```

```
*       bug 566258 - Intermittent NPE in APT RoundDispatcher
*******************************************************************************/
```

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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java
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* Contributors:
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*     IBM Corporation - fix for 342936
*     Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*     Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
```

```
*    Frits Jalvingh  - fix for bug 533830.
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerImpl.java
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*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*         bug 370639 - [compiler][resource] restore the default for resource leak warnings
*         bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*         Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*         Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*         Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*         Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*         Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*         Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*         Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*         Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*         Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExplicitConstructorCall.java

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*         Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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*          Bug 473178
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*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 458396 - NPE in CodeStream.invoke()
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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*     Genady Beriozkin - added support for reporting assignment with no effect
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 292478 - Report potentially null across variable assignment
*           bug 335093 - [compiler][null] minimal hook for future null annotation support
*           bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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*  IBM Corporation - initial API and implementation
*  Stephan Herrmann - Contribution for
*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/
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*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*           bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

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*     Stephan Herrmann - Contribution for
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*                       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********************************************************************************/
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
**********/

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java
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*     Stephan Herrmann - Contribution for
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
```

```
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                       bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
```

```
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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```
*     Jesper S Moller - Contributions for
*         bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*    Stephan Herrmann - Contribution for
*         bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
**********************************************************************************/
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 383368 - [compiler][null] syntactic null analysis for field references
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*         Bug 428811 - [1.8][compiler] Type witness unnecessarily required
```

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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*   bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*   Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*   Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*   Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*   bug 386692 - Missing "unused" warning on "autowired" fields
*   Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*   bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 458396 - NPE in CodeStream.invoke()
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365835 - [compiler][null] inconsistent error reporting.
 *   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Jesper S Moller - Contributions
 for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*    IBM Corporation - fix for 342598
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*     Stephan Herrmann - Contributions for
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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*    IBM Corporation - fix for 342470
*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 185682 - Increment/decrement operators mark local variables as read
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*         Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*********************************************************************************/
```

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*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
expressions
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Stephan Herrmann - Contribution for
*   bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*   Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*   Bug 427438
 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*   Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*   Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*   Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*   Bug 438945 - [1.8] NullPointerException
 InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*   Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
**********/

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*     Stephan Herrmann - Contributions for
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 331649 - [compiler][null] consider null annotations for fields
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*         Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*         Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*         Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                         Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                         Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                         Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*       Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                         Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                         Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                         Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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* Contributors:
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*     Stephan Herrmann - Contribution for
*         Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*           Bug 473178
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*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*******************************************************************************/
```

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Bug 529556 - [18.3] Add content assist support for 'var' as a type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java
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*    wharley@bea.com - derived base class from BatchMessagerImpl
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*         Bug 440474 - [null] textual encoding of external null annotations
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*         bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*         Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*         bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type
 annotations after bug 392099
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 434600 - Incorrect null analysis error reporting on type parameters
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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*     Stephan Herrmann - Contributions for
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*   bug 325755 - [compiler] wrong initialization state after conditional expression
*   bug 320170 - [compiler] [null] Whitebox issues in null analysis
*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java
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*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*   Bug 456924 - StackOverflowError during compilation
*   Bug 462790 - [null] NPE in Expression.computeConversion()
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

```
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*         Bug 354536 - compiling package-info.java still depends on the order of compilation units
*         Bug 349326 - [1.7] new warning for missing try-with-resources
*         Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
```

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*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*                       Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*     het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/

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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*        bug 328281 - visibility leaks not detected when analyzing unused field in private class
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*        bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 366063 - Compiler should not add synthetic @NonNull annotations
*        bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*        bug 386356 - Type mismatch error with annotations and generics
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*        bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
```

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 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*      Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*      Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         bug 407191 - [1.8] Binary access support for type annotations
*     Stephan Herrmann - Contribution for
*        Bug 440474 - [null] textual encoding of external null annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java

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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*       bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 376053 - [compiler][resource] Strange potential resource leak problems
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
*       bug 376590 - Private fields with @Inject are ignored by unused field validation
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402028 - [1.8][compiler] null analysis for reference expressions
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug
 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
```

* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
 from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
 in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs
 special treatment
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
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*     Stephan Herrmann - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*         bug 379784 - [compiler] "Method can be static" is not getting reported
*         bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super
class.
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*         bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null
 analysis for field references
*         bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*         bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*         bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*         bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*         Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis
 to gel well with deep encoded type bindings.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*         Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*         Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
```

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*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*       Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*       Bug 470958 - [1.8] Unable to convert lambda
*       Bug 410218 - Optional warning
 for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
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*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug
 383368 - [compiler][null] syntactic null analysis for field references
*        bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*        Bug 430150 - [1.8][null] stricter checking against type variables
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
 null annotations
*        Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*******************************************************************************/
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*   IBM Corporation - Fix for bug 328575
*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
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 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406973 - [compiler] Parse MethodParameters attribute
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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```
*    IBM Corporation - fix for bug 342757
*    Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
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*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileSystem.java

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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann - Contribution for
*          bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*     Stephan Herrmann - Contribution for
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
*       Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is
applicable here"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*       Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda
compatibility constraint
*       Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*                        Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 387612 - Unreachable catch block...exception is never thrown from the try
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*   bug 401271 - StackOverflowError
 when searching for a methods references
*   bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*   Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
*   Bug 413958 - Function override returning inherited Generic Type
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler]
 Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context

```
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
*       Bug 426590 - [1.8][compiler] Compiler error with tenary operator
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments
(java.lang.Class, java.lang.String)
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug
 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
*       Bug 427218 - [1.8][compiler] Verify error varargs + inference
*       Bug 426836 - [1.8] special handling for return type in references to method getClass()?
*       Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
*       Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*       Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*       Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
 class
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*       Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite
@NonNullByDefault
*       Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*        Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc)
 aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                         Bug 559618 - No compiler warning for import from same package
*                         Bug 560630 - No warning on unused import on class from same package
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ProcessTaskManager.java
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```
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ExternalAnnotationProvider.java
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*        bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*        bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*        bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
```

```
*                   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                   Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                   Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CodeStream.java
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*     daolaf@gmail.com - Contribution for bug 3292227
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
```

```
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
**********************************************************************************/
```

Found
in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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*
* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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*     Tom Tromey - Contribution for bug 125961
*     Tom Tromey - Contribution for bug 159641
*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
```

```
*           bug 359721 - [options] add command line option
 for new warning token "resource"
*       bug 365208 - [compiler][batch] command line options for annotation based null analysis
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*       Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*     Jesper S Moller   - Contributions for
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
*    Mat Booth - Contribution for bug 405176
*    Frits Jalvingh -
 fix for bug 533830.
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/Main.java
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*     Stephan Herrmann - Contribution for
*       Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Initializer.java
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*   Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 317046 - Exception during debugging when hover mouse over a field
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray(and asking for code completion
 *   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

```
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*********************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*********************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
*   het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
***/

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*        Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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*   Till Brychcy - Contributions for
*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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*   Frits Jalvingh - fix for bug 533830.
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 417295 - [1.8[[null] Massage type annotated
 null analysis to gel well with deep encoded type bindings.
*        Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********************************************************************************/
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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*     Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*     Stephan Herrmann - Contributions for
*        bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*        bug 374605 - Unreasonable warning for enum-based switch statements
*        bug 393719 - [compiler] inconsistent warnings on iteration variables
*        bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*        bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*        bug 401035 - [1.8] A few tests have started failing recently
*     Jesper S Moller - Contributions for
*        bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*        bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*        bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*        bug 393192 - Incomplete type hierarchy with > 10 annotations
*        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*         Andy Clement - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                        Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
```

```
*
        Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*         NonStaticAccessToStaticField
*         NonStaticAccessToStaticMethod
*         Task
*         ExpressionShouldBeAVariable
*         AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*         TooManySyntheticArgumentSlots
```

```
*         TooManyArrayDimensions
*         TooManyBytesForStringConstant
*         TooManyMethods
*         TooManyFields
 *         NonBlankFinalLocalAssignment
*         ObjectCannotHaveSuperTypes
*         MissingSemiColon
*         InvalidParenthesizedExpression
*         EnclosingInstanceInConstructorCall
*         BytecodeExceeds64KLimitForConstructor
*         IncompatibleReturnTypeForNonInheritedInterfaceMethod
*         UnusedPrivateMethod
*         UnusedPrivateConstructor
*         UnusedPrivateType
*         UnusedPrivateField
*         IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*         InvalidExplicitConstructorCall
*     IBM Corporation - added the following constants
*         PossibleAccidentalBooleanAssignment
*         SuperfluousSemicolon
*         IndirectAccessToStaticField
*         IndirectAccessToStaticMethod
*         IndirectAccessToStaticType
*         BooleanMethodThrowingException
*         UnnecessaryCast
*         UnnecessaryArgumentCast
*         UnnecessaryInstanceof
*
   FinallyMustCompleteNormally
*         UnusedMethodDeclaredThrownException
*         UnusedConstructorDeclaredThrownException
*         InvalidCatchBlockSequence
*         UnqualifiedFieldAccess
*     IBM Corporation - added the following constants
*         Javadoc
*         JavadocUnexpectedTag
*         JavadocMissingParamTag
*         JavadocMissingParamName
*         JavadocDuplicateParamName
*         JavadocInvalidParamName
*         JavadocMissingReturnTag
*         JavadocDuplicateReturnTag
*         JavadocMissingThrowsTag
*         JavadocMissingThrowsClassName
*         JavadocInvalidThrowsClass
*         JavadocDuplicateThrowsClassName
*         JavadocInvalidThrowsClassName
*         JavadocMissingSeeReference
```

```
*         JavadocInvalidSeeReference
*         JavadocInvalidSeeHref
*         JavadocInvalidSeeArgs
*         JavadocMissing
*         JavadocInvalidTag
*         JavadocMessagePrefix
 *         EmptyControlFlowStatement
*    IBM Corporation - added the following constants
*         IllegalUsageOfQualifiedTypeReference
*         InvalidDigit
*    IBM Corporation - added the following constants
*         ParameterAssignment
*         FallthroughCase
*    IBM Corporation - added the following constants
*                         UnusedLabel
*                         UnnecessaryNLSTag
*                         LocalVariableMayBeNull
*                         EnumConstantsCannotBeSurroundedByParenthesis
*                         JavadocMissingIdentifier
*                         JavadocNonStaticTypeFromStaticInvocation
*                         RawTypeReference
*                         NoAdditionalBoundAfterTypeVariable
*                         UnsafeGenericArrayForVarargs
*                         IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                         InvalidEncoding
*                         CannotReadSource
*                         EnumStaticFieldInInInitializerContext
*                         ExternalProblemNotFixable
*                         ExternalProblemFixable
*    IBM Corporation - added the following constants
*                         AnnotationValueMustBeAnEnumConstant
*                         OverridingMethodWithoutSuperInvocation
*                         MethodMustOverrideOrImplement
*                         TypeHidingTypeParameterFromType
*                         TypeHidingTypeParameterFromMethod
*                         TypeHidingType
*    IBM Corporation - added the following constants
*         NullLocalVariableReference
*         PotentialNullLocalVariableReference
*         RedundantNullCheckOnNullLocalVariable
*          NullLocalVariableComparisonYieldsFalse
 *          RedundantLocalVariableNullAssignment
*          NullLocalVariableInstanceofYieldsFalse
*          RedundantNullCheckOnNonNullLocalVariable
*          NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
```

```
*                          InvalidUsageOfTypeParametersForAnnotationDeclaration
*                          InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*         RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*       MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*       UnusedObjectAllocation
*       PotentiallyUnclosedCloseable
*       PotentiallyUnclosedCloseableAtExit
*       UnclosedCloseable
*       UnclosedCloseableAtExit
*       ExplicitlyClosedAutoCloseable
*          RequiredNonNullButProvidedNull
 *        RequiredNonNullButProvidedPotentialNull
*        RequiredNonNullButProvidedUnknown
*        NullAnnotationNameMustBeQualified
*        IllegalReturnNullityRedefinition
*        IllegalRedefinitionToNonNullParameter
*        IllegalDefinitionToNonNullParameter
*        ParameterLackingNonNullAnnotation
*        ParameterLackingNullableAnnotation
*        PotentialNullMessageSendReference
*        RedundantNullCheckOnNonNullMessageSend
*        CannotImplementIncompatibleNullness
*        RedundantNullAnnotation
*       RedundantNullDefaultAnnotation
*       RedundantNullDefaultAnnotationPackage
*       RedundantNullDefaultAnnotationType
*       RedundantNullDefaultAnnotationMethod
*       ContradictoryNullAnnotations
*       IllegalAnnotationForBaseType
*       RedundantNullCheckOnSpecdNonNullLocalVariable
*       SpecdNonNullLocalVariableComparisonYieldsFalse
*       RequiredNonNullButProvidedSpecdNullable
*       MissingDefaultCase
 *       MissingEnumConstantCaseDespiteDefault
*       UninitializedLocalVariableHintMissingDefault
*       UninitializedBlankFinalFieldHintMissingDefault
*       ShouldReturnValueHintMissingDefault
*       IllegalModifierForInterfaceDefaultMethod
*       InheritedDefaultMethodConflictsWithOtherInherited
*       ConflictingNullAnnotations
*       ConflictingInheritedNullAnnotations
*       UnsafeElementTypeConversion
*       ArrayReferencePotentialNullReference
*       DereferencingNullableExpression
*       NullityMismatchingTypeAnnotation
```

```
 *      NullityMismatchingTypeAnnotationSuperHint
 *      NullityUncheckedTypeAnnotationDetail
 *      NullityUncheckedTypeAnnotationDetailSuperHint
 *      NullableFieldReference
 *      UninitializedNonNullField
 *      UninitializedNonNullFieldHintMissingDefault
 *      NonNullMessageSendComparisonYieldsFalse
 *      RedundantNullCheckOnNonNullSpecdField
 *      NonNullSpecdFieldComparisonYieldsFalse
 *      NonNullExpressionComparisonYieldsFalse
 *      RedundantNullCheckOnNonNullExpression
 *      ReferenceExpressionParameterNullityMismatch
 *      ReferenceExpressionParameterNullityUnchecked
 *      ReferenceExpressionReturnNullRedef
 *      ReferenceExpressionReturnNullRedefUnchecked
 *      DuplicateInheritedDefaultMethods
 *      SuperAccessCannotBypassDirectSuper
 *      SuperCallCannotBypassOverride
 *      ConflictingNullAnnotations
 *      ConflictingInheritedNullAnnotations
 *      UnsafeElementTypeConversion
 *      PotentialNullUnboxing
 *      NullUnboxing
 *      NullExpressionReference
 *      PotentialNullExpressionReference
 *      RedundantNullCheckAgainstNonNullType
 *      NullAnnotationUnsupportedLocation
 *      NullAnnotationUnsupportedLocationAtType
 *      NullityMismatchTypeArgument
 *      ContradictoryNullAnnotationsOnBound
 *      UnsafeNullnessCast
 *      ContradictoryNullAnnotationsInferred
 *      NonNullDefaultDetailIsNotEvaluated
 *      NullNotCompatibleToFreeTypeVariable
 *      NullityMismatchAgainstFreeTypeVariable
 *      ImplicitObjectBoundNoNullDefault
 *      IllegalParameterNullityRedefinition
 *      ContradictoryNullAnnotationsInferredFunctionType
 *      IllegalReturnNullityRedefinitionFreeTypeVariable
 *      UnlikelyCollectionMethodArgumentType
 *      UnlikelyEqualsArgumentType
 *    Jesper S Moller  - added the following constants
 *      TargetTypeNotAFunctionalInterface
 *      OuterLocalMustBeEffectivelyFinal
 *      IllegalModifiersForPackage
 *      DuplicateAnnotationNotMarkedRepeatable
 *      DisallowedTargetForContainerAnnotation
 *      RepeatedAnnotationWithContainerAnnotation
```

* ContainingAnnotationMustHaveValue
* ContainingAnnotationHasNonDefaultMembers
* ContainingAnnotationHasWrongValueType
* ContainingAnnotationHasShorterRetention
* RepeatableAnnotationHasTargets
* RepeatableAnnotationTargetMismatch
* RepeatableAnnotationIsDocumented
* RepeatableAnnotationIsInherited
* RepeatableAnnotationWithRepeatingContainerAnnotation
* VarLocalMultipleDeclarators
* VarLocalCannotBeArray
* VarLocalReferencesItself
* VarLocalWithoutInitizalier
* VarLocalInitializedToNull
* VarLocalCannotBeArrayInitalizers
* VarLocalCannotBeLambda
* VarLocalCannotBeMethodReference
* VarIsReserved
* VarIsReservedInFuture
* VarIsNotAllowedHere
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
**********/

Found
 in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java

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* Contributors:
*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintTypeFormula.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*        Bug 426792 - [1.8][inference][impl] generify new type inference engine
*        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
```

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 -
[1.8][null] Bogus warning for type argument annotated with @NonNull
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* Bug 186342 - [compiler][null] Using annotations for null checking
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Walter Harley - Patch for ensuring the parent folders are created
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 370930 - NonNull annotation not considered for enhanced for loops
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*        Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*     Jesper S Moller -  Contribution for
*        bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                          bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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*   IBM Corporation - initial API and implementation
*   Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteral.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/JRTUtil.java
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*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*        Bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
```

Found
 in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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*     het@google.com - Bug 441790
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/AnnotationMirrorImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CatchParameterBinding.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExternalAnnotationSuperimposer.java
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* Contributors:
*    Igor Fedorenko - extracted from ElementsImpl
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementsImpl9.java
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* Contributors:
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocFieldReference.java
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*   Jesper Steen Moeller - Contributions for:
*   Bug 407297: [1.8][compiler] Control generation of parameter names by option
**********/

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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 385626 - @NonNull fails across
 loop boundaries
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
**/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java
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* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* bug 332637 - Dead Code detection removing code that isn't dead

```
*          bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*       bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*     Jesper Steen Moller -
 Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*
**********************************************************************************/

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*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        bug 404728 - [1.8]NPE on QualifiedSuperReference error
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*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
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*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
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*         bug 186342 - [compiler][null] Using annotations for null checking
```

```
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*******************************************************************************/
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
                Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
```

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 447088 - [null] @Nullable on fully qualified field type is ignored
* Bug 435805 - [1.8][compiler][null]

Java 8 compiler does not recognize declaration style null annotations
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
* Till Brychcy - Contribution for
* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
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*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*        bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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*     Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*           bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426792 - [1.8][inference][impl] generify new type inference engine
*        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*        Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*        Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*        Bug 431408 - Java 8 (1.8) generics bug
*        Bug 435962 - [RC2] StackOverFlowError when building
*        Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*        Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*        Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*        Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*        Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*        Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*        Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*        Bug 462790 - [null] NPE in Expression.computeConversion()
 *       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*     Jesper S Møller <jesper@selskabet.org>  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major
version
*        Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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*   Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
*   Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
**********/

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*   IBM Corporation - bug fixes
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*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

```
*       Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
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*     Stephan Herrmann - Contributions for
*       bug 292478 - Report potentially null across variable assignment
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field
 references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
```

checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

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* Contributors:
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*   Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards

```
*       Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized
type due to bound(s) mismatch
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
 *       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*     Jesper S Møller  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Jesper S Moller  -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Scanner.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 185682 - Increment/decrement operators mark local variables as read
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*         Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 458396 - NPE in CodeStream.invoke()
*     Jesper S Moller - Contributions for
*         Bug 378674 - "The method can be declared as static" is wrong
*     Robert Roth <robert.roth.off@gmail.com> - Contributions for
*         Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
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*    Walter Harley - initial API and implementation
*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
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*       Bug 378674 - "The method can be declared as static" is wrong
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*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
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 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
**********/

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*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional
expression
```

*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*   Till Brychcy - Contributions for
*   bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
**/

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*       Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**/

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*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
 into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                     bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                     bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
```

when using MethodSource
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*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Jesper S Moller   - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Frits Jalvingh   - contributions for bug 533830.
*   Red Hat Inc.   - add module-info Javadoc support
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```
*     Stephan Herrmann - Contributions for
*       bug 332637 - Dead Code detection removing code that isn't dead
*       bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
**********************************************************************************/
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*     Stephan Herrmann - contributions for
*           bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*           bug 186342 - [compiler][null] Using annotations for null checking
*******************************************************************************/
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*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*         Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java
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*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
*******************************************************************************/
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contributions for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 374605 - Unreasonable warning for enum-based switch statements
*        bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*        bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
```

```
*       Bug
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
**********************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SplitPackageBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
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*   Stephan Herrmann - contributions for
*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

```
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 367203 - [compiler][null] detect assigning null to nonnull argument
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*        Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
```

location
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 443347 - [1.8][null]
@NonNullByDefault should not affect constructor arguments of an anonymous instantiation
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
* Bug 471611 - Error on hover on call to generic method with null annotation
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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* tyeung@bea.com - initial API and implementation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*        Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*        bug 378674 - "The method can be declared as static" is wrong
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*   bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Wildcard.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with

generics (RuntimeException instead of IOException)
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*   Stephan Herrmann - Contribution for
*   Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
*   Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*   Till Brychcy - Contribution for
*   Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
***/

```
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
   E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
   needed for correctness, but for annotated object reuse. We provide two alternate ways to
   annotate a type:

   Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
   to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
   and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
   the key, in the latter with List<String> as the key.

   Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
   alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
   the same TypeBinding.id => correctness is not an issue, but memory wastage is)
 */
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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* Contributors:
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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*         Bug 458396 - NPE in CodeStream.invoke()
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*     Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
*     Stephan Herrmann - Contribution for
*         bug 331649 - [compiler][null] consider null annotations for fields
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Clinit.java
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*    IBM Corporation - Fix for bug 341494
*    IBM Corporation - Fix for bug 328575
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*     Stephan Herrmann - Contributions for
*         bug 335093 - [compiler][null] minimal hook for future null annotation support
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*         bug 370930 - NonNull annotation not considered for enhanced for loops
*         bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*         Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*         Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*         Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*         Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*         Bug 455723 - Nonnull argument not correctly inferred in loop
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                         Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********************************************************************************/

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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425783 - An
 internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*******************************************************************************/
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*   Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**********/

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```
*       Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the
method
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
            bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 349326 - [1.7] new warning for missing try-with-resources
```

```
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper Steen Moller - Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       bug 413958 - Function override returning inherited Generic Type
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
```

```
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 457079 - Regression: type
 inference
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java
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*     Stephan Herrmann - Contributions for
*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleDeclaration.java

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*          bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 365859 - [compiler][null]
 distinguish warnings based on flow analysis vs. null annotations
*        bug 385626 - @NonNull fails across loop boundaries
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 376263 - Bogus "Potential null pointer access" warning
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        bug 406384 - Internal error with I20130413
*        Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of
LoopingFlowContext and FinallyFlowContext
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*        Bug 455723 - Nonnull argument not correctly inferred in loop
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*        Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*     Jesper S Moller - contributions for
*        bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java
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*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 345305 - [compiler][null]
Compiler misidentifies a case of "variable can only be null"
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 458396 - NPE in CodeStream.invoke()
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java

1.154 activation-api 1.2.1

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1.155 javassist 3.29.2-GA

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* /javassist-3-29-2-ga-sources-jar/javassist/CtConstructor.java

* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/InnerClassesAttribute.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/compiler/Lex.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewClass.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeIterator.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/FieldAccess.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Loader.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/IntQueue.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Member.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPool.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/LineNumberAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/BinExpr.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/StackMap.java
* /javassist-3-29-2-ga-sources-jar/javassist/runtime/Desc.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/SoftValueHashMap.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/web/Viewer.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/BasicBlock.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/FactoryHelper.java
* /javassist-3-29-2-ga-sources-jar/javassist/Modifier.java
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* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/NestMembersAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/ByteArrayClassPath.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/NestHostAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/KeywordTable.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/Expr.java
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 /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Pair.java
* /javassist-3-29-2-ga-sources-jar/javassist/ClassClassPath.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AccessFlag.java
* /javassist-3-29-2-ga-sources-jar/javassist/convert/Transformer.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/HotSwapAgent.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ProceedHandler.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtClassType.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/FieldInfo.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /javassist-3-29-2-ga-sources-jar/javassist/convert/TransformNewClass.java
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* /javassist-3-29-2-ga-sources-jar/javassist/ClassMap.java
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* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ClassFilePrinter.java
*

/javassist-3-29-2-ga-sources-jar/javassist/compiler/TypeChecker.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/convert/TransformAfter.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ConstantAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/ClassPool.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/DeprecatedAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/web/BadHttpRequest.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/CastExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/ASTree.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Frame.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewMethod.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/TypeData.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtPrimitiveType.java
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/javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/MapMaker.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/InstanceOfExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/ExprEditor.java
* /javassist-3-29-2-ga-sources-jar/javassist/Translator.java
* /javassist-3-29-2-ga-sources-jar/javassist/LoaderClassPath.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Analyzer.java
* /javassist-3-29-2-ga-sources-jar/javassist/convert/TransformReadField.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/Handler.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/BadBytecode.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Stmnt.java
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/javassist-3-29-2-ga-sources-jar/javassist/bytecode/ByteArray.java
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* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/Proxy.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/NewArray.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/CallExpr.java
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* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/DoubleConst.java
* /javassist-3-29-2-ga-sources-jar/javassist/convert/TransformAccessArrayField.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/ObjectImporter.java
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/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotReflectException.java
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* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/Opcode.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/EnclosingMethodAttribute.java

* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/MultiArrayType.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Compiler.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-29-2-ga-sources-jar/javassist/CannotCompileException.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtBehavior.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/IntConst.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/MethodCall.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/framedump.java
*
/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/DefinePackageHelper.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Subroutine.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/JvstCodeGen.java
* /javassist-3-29-2-ga-sources-jar/javassist/convert/TransformBefore.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtMethod.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Visitor.java
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* /javassist-3-29-2-ga-sources-jar/javassist/Loader.java
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/javassist-3-29-2-ga-sources-jar/javassist/bytecode/ConstPool.java
* /javassist-3-29-2-ga-sources-jar/javassist/SerialVersionUID.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/FieldDecl.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/LongVector.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ExceptionsAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/TypedBlock.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/LocalVariableAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ExceptionTable.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/RemoteRef.java
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* /javassist-3-29-2-ga-sources-jar/javassist/compiler/Javac.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtMember.java
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/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewConstructor.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/ConstructorCall.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Executor.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/SyntaxError.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/SymbolTable.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/ClassMetaobject.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/Sample.java

* /javassist-3-29-2-ga-sources-jar/javassist/tools/Dump.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/MethodHandler.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObject.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/JvstTypeChecker.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/ControlFlow.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/NotFoundException.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/AccessorMaker.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Sample.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Metaobject.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/MethodFilter.java
* /javassist-3-29-2-ga-sources-jar/javassist/runtime/Cflow.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/CompileError.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtClass.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotCreateException.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/Bytecode.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtArray.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/TypeTag.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/DefineClassHelper.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/MethodInfo.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ClassFile.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/Instanceof.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/AssignExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Util.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/NoFieldException.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/Cast.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/DuplicateMemberException.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Metalevel.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /javassist-3-29-2-ga-sources-jar/javassist/URLClassPath.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/Descriptor.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/HotSwapper.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/RemoteException.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/MemberResolver.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Expr.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/SourceFileAttribute.java

* /javassist-3-29-2-ga-sources-jar/javassist/convert/TransformNew.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/ArrayInit.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/web/Webserver.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/StringL.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/TokenId.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Variable.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AttributeInfo.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Reflection.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtField.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/NewExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java
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Found in path(s):
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java

* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
*
/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java

1.156 config 1.4.2

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1.157 apache-commons-text 1.4

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1.158 ssl-config-core_2.13 0.4.3

1.158.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: ssl.config.core
Bnd-LastModified: 1616500617128
Bundle-Description: ssl-config-core
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt;descri
ption=Apache-2.0

Bundle-ManifestVersion: 2
Bundle-Name: ssl-config-core
Bundle-SymbolicName: com.typesafe.sslconfig
Bundle-Vendor: Lightbend
Bundle-Version: 0.4.3
Created-By: 1.8.0_272 (Oracle Corporation)
Export-Package: com.typesafe.sslconfig.ssl;version="0.4.3";uses:="com.
typesafe.config,com.typesafe.sslconfig.util,javax.naming.ldap,javax.n
et.ssl,scala,scala.collection,scala.collection.immutable,scala.collec
tion.mutable,scala.reflect,scala.runtime,scala.util.matching,scala.ut
il.parsing.combinator,scala.util.parsing.input",com.typesafe.sslconfi
g.ssl.debug;version="0.4.3";uses:="com.typesafe.sslconfig.ssl,com.typ
esafe.sslconfig.util,scala,scala.collection.immutable,scala.reflect,s
cala.runtime",com.typesafe.sslconfig.ssl.tracing;version="0.4.3";uses
 :="com.typesafe.sslconfig.ssl,com.typesafe.sslconfig.util,javax.net.s
sl,scala,scala.collection.immutable,scala.reflect,scala.runtime",com.
typesafe.sslconfig.util;version="0.4.3";uses:="com.typesafe.config,sc
ala,scala.collection.immutable,scala.concurrent.duration,scala.reflec
t"
Implementation-Title: ssl-config-core
Implementation-Vendor: Lightbend
Implementation-Vendor-Id: com.typesafe
Implementation-Version: 0.4.3
Import-Package: com.typesafe.config;version="[1.4.0,1.5.0)",com.typesa
fe.sslconfig.ssl;version="[0.4,1)",com.typesafe.sslconfig.ssl.tracing
;version="[0.4,1)",com.typesafe.sslconfig.util;version="[0.4,1)",java
x.crypto,javax.crypto.interfaces,javax.crypto.spec,javax.naming,javax
.naming.ldap,javax.net,javax.net.ssl,javax.security.auth.x500,scala;v
ersion="[2.13,3)",scala.collection;version="[2.13,3)",scala.collectio
n.immutable;version="[2.13,3)",scala.collection.mutable;version="[2.1
3,3)",scala.concurrent.duration;version="[2.13,3)",scala.reflect;vers
 ion="[2.13,3)",scala.runtime;version="[2.13,3)",scala.runtime.java8;v
ersion="[2.13,3)",scala.util;version="[2.13,3)",scala.util.control;ve
rsion="[2.13,3)",scala.util.matching;version="[2.13,3)",scala.util.pa
rsing.combinator;version="[1.1,2)",scala.util.parsing.input;version="
[1.1,2)"
Private-Package: com.typesafe.sslconfig.*
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))
"
Specification-Title: ssl-config-core
Specification-Vendor: Lightbend
Specification-Version: 0.4.3
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /ssl-config-core-2-13-0-4-3-jar/META-INF/MANIFEST.MF

1.159 simpleclient_tracer_common 0.16.0

1.159.1 Available under license :

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Found in path(s):
* /simpleclient-tracer-common-0-16-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_common/pom.xml

1.160 simpleclient-common 0.16.0

1.160.1 Available under license :

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Manifest-Version: 1.0
Bnd-LastModified: 1655327905690
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Common code used by various modules of the Simplecli
ent.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheu
s.client";version="0.16.0"
Import-Package: io.prometheus.client;version="[0.16,1)",io.prometheus.cl
ient.exemplars;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /simpleclient-common-0-16-0-2-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /simpleclient-common-0-16-0-2-jar/META-INF/maven/io.prometheus/simpleclient_common/pom.xml

1.161 simpleclient_tracer_otel 0.16.0

1.161.1 Available under license :

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Found in path(s):
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1.162 simpleclient_tracer_otel_agent 0.16.0

1.162.1 Available under license :

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1.163 simpleclient 0.16.0

1.163.1 Available under license :

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*
* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12
*/
```

Found in path(s):
* /simpleclient-0-16-0-sources-3-jar/io/prometheus/client/DoubleAdder.java
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*/

Found in path(s):
* /simpleclient-0-16-0-sources-3-jar/io/prometheus/client/Striped64.java

1.164 org.apache.felix.cm.json 1.0.6

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1.165 org.apache.servicemix.bundles.spring-security-crypto 5.3.3.RELEASE_2

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1.166 jolokia-osgi 1.7.1

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Manifest-Version: 1.0
Bnd-LastModified: 1332231819873
Build-Jdk: 1.6.0_26
Built-By: fangyidong
Bundle-Description: A simple Java toolkit for JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: JSON.simple
Bundle-SymbolicName: com.googlecode.json-simple
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.json.simple;uses:="org.json.simple.parser";version="
1.1.1",org.json.simple.parser;uses:="org.json.simple";version="1.1.1"
Tool: Bnd-1.50.0

Found in path(s):
* /jolokia-osgi-1-7-1-jar/lib/json-simple-1-1-1-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Bnd-LastModified: 1632063420031
Build-Jdk: 1.8.0_292
Built-By: roland
Bundle-Activator: org.jolokia.osgi.JolokiaActivator
Bundle-ClassPath: .,lib/json-simple-1.1.1.jar
Bundle-Description: Jolokia agent exposing JMX via HTTP/JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jolokia Agent
Bundle-SymbolicName: org.jolokia.osgi
Bundle-Version: 1.7.1
Created-By: Apache Maven Bundle Plugin
Embed-Dependency: json-simple;inline=false,jolokia-core;inline=true,jolo
kia-jsr160;inline=true
Embed-Directory: lib
Embedded-Artifacts: lib/json-simple-1.1.1.jar;g="com.googlecode.json-sim
ple";a="json-simple";v="1.1.1"
Export-Package: org.jolokia.osgi.security;uses:="javax.servlet.http,org.
jolokia.util,org.osgi.service.http,org.jolokia.restrictor,javax.managem
ent,org.osgi.framework,javax.security.auth.callback,javax.security.auth
,javax.security.auth.login,org.osgi.util.tracker";version="1.7.1",org.j
 olokia.osgi.servlet;uses:="org.osgi.service.http,org.osgi.framework,jav
ax.servlet";version="1.7.1",org.jolokia.restrictor;uses:="javax.managem
ent,javax.xml.parsers,org.w3c.dom,org.xml.sax";version="1.7.1",org.jolo
kia.util;uses:="javax.servlet.http,javax.xml.datatype,javax.management,

javax.management.relation,javax.crypto,javax.crypto.spec,javax.security
.auth.callback";version="1.7.1",org.jolokia.converter;uses:="org.joloki
a.converter.object,org.jolokia.converter.json";version="1.7.1",org.jolo
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javax.management";version="1.7.1"
Import-Package: javax.crypto,javax.crypto.spec,javax.management,javax.ma
nagement.openmbean,javax.management.relation,javax.management.remote,ja
vax.naming,javax.rmi.ssl,javax.security.auth,javax.security.auth.callba
 ck,javax.security.auth.login,javax.servlet,javax.servlet.http,javax.xml
,javax.xml.datatype,javax.xml.parsers,org.jolokia.converter;version="[1
.7,2)",org.jolokia.osgi.servlet;version="1.7.1",org.jolokia.restrictor;
version="1.7.1",org.jolokia.util;version="1.7.1",org.osgi.framework;ver
sion="[1.0.0,2.0.0)",org.osgi.service.cm;version="[1.0.0,2.0.0)";resolu
tion:=optional,org.osgi.service.http;version="[1.0.0,2.0.0)";resolution
:=optional,org.osgi.service.log;version="[1.0.0,2.0.0)",org.osgi.util.t
racker;version="[1.0.0,2.0.0)",org.w3c.dom,org.xml.sax
Tool: Bnd-1.50.0

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* /jolokia-osgi-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-core/pom.xml
* /jolokia-osgi-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-osgi/pom.xml
* /jolokia-osgi-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml
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<project>
  <modelVersion>4.0.0</modelVersion>

```
<groupId>com.googlecode.json-simple</groupId>
<artifactId>json-simple</artifactId>
<packaging>bundle</packaging>
<name>JSON.simple</name>
<version>1.1.1</version>
<description>A simple Java toolkit for JSON</description>
<url>http://code.google.com/p/json-simple/</url>
<licenses>
   <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
   </license>
</licenses>
<developers>
   <developer>
      <id>Yidong</id>
      <name>Yidong Fang</name>
      <roles>
         <role>architect</role>
         <role>developer</role>
      </roles>
      <timezone>+8</timezone>
   </developer>
</developers>
<scm>
   <connection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</connection>
    <developerConnection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</developerConnection>
   <url>http://json-simple.googlecode.com/svn/trunk/</url>
</scm>

<properties>
   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
   <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.10</version>
   </dependency>
</dependencies>

<build>
   <plugins>
      <plugin>
         <groupId>org.apache.felix</groupId>
         <artifactId>maven-bundle-plugin</artifactId>
         <version>2.3.6</version>
```

```
        <extensions>true</extensions>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>2.3.2</version>
        <configuration>

         <source>1.2</source>
          <target>1.2</target>
        </configuration>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-source-plugin</artifactId>
        <version>2.1.2</version>
        <executions>
          <execution>
            <id>attach-sources</id>
            <phase>verify</phase>
            <goals>
              <goal>jar-no-fork</goal>
            </goals>
          </execution>
        </executions>
      </plugin>
    </plugins>
</build>

<profiles>
  <profile>
    <id>release-sign-artifacts</id>
    <activation>
      <property>
        <name>performRelease</name>
        <value>true</value>
      </property>
    </activation>
    <build>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
           <artifactId>maven-gpg-plugin</artifactId>
          <version>1.4</version>
          <executions>
            <execution>
              <id>sign-artifacts</id>
              <phase>verify</phase>
```

```
            <goals>
              <goal>sign</goal>
            </goals>
          </execution>
        </executions>
      </plugin>
    </plugins>
  </build>
 </profile>
</profiles>

</project>
```

Found in path(s):
* /jolokia-osgi-1-7-1-jar/lib/json-simple-1-1-1-jar/META-INF/maven/com.googlecode.json-simple/json-simple/pom.xml

1.167 jolokia 1.7.1

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```
Manifest-Version: 1.0
Bnd-LastModified: 1332231819873
Build-Jdk: 1.6.0_26
Built-By: fangyidong
Bundle-Description: A simple Java toolkit for JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: JSON.simple
Bundle-SymbolicName: com.googlecode.json-simple
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.json.simple;uses:="org.json.simple.parser";version="
1.1.1",org.json.simple.parser;uses:="org.json.simple";version="1.1.1"
Tool: Bnd-1.50.0
```

Found in path(s):
* /jolokia-war-1-7-1-war/WEB-INF/lib/json-simple-1-1-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /jolokia-war-1-7-1-war/META-INF/maven/org.jolokia/jolokia-war/pom.xml
* /jolokia-war-1-7-1-war/WEB-INF/lib/jolokia-jsr160-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml
* /jolokia-war-1-7-1-war/WEB-INF/lib/jolokia-core-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-core/pom.xml
*
/jolokia-war-1-7-1-war/WEB-INF/web.xml
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<project>
<modelVersion>4.0.0</modelVersion>
<groupId>com.googlecode.json-simple</groupId>
<artifactId>json-simple</artifactId>
<packaging>bundle</packaging>
<name>JSON.simple</name>
<version>1.1.1</version>
<description>A simple Java toolkit for JSON</description>
<url>http://code.google.com/p/json-simple/</url>
<licenses>
<license>
<name>The Apache Software License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
</license>
</licenses>
<developers>
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<id>Yidong</id>
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<roles>
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</roles>
<timezone>+8</timezone>
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</developers>
<scm>
<connection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</connection>

```
    <developerConnection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</developerConnection>
   <url>http://json-simple.googlecode.com/svn/trunk/</url>
</scm>

<properties>
   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
   <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.10</version>
   </dependency>
</dependencies>

<build>
   <plugins>
      <plugin>
         <groupId>org.apache.felix</groupId>
         <artifactId>maven-bundle-plugin</artifactId>
         <version>2.3.6</version>
         <extensions>true</extensions>
      </plugin>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-compiler-plugin</artifactId>
         <version>2.3.2</version>
         <configuration>

          <source>1.2</source>
           <target>1.2</target>
         </configuration>
      </plugin>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-source-plugin</artifactId>
         <version>2.1.2</version>
         <executions>
           <execution>
             <id>attach-sources</id>
             <phase>verify</phase>
             <goals>
               <goal>jar-no-fork</goal>
             </goals>
           </execution>
         </executions>
      </plugin>
```

```
    </plugins>
  </build>

  <profiles>
   <profile>
    <id>release-sign-artifacts</id>
    <activation>
     <property>
      <name>performRelease</name>
      <value>true</value>
     </property>
    </activation>
    <build>
     <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-gpg-plugin</artifactId>
        <version>1.4</version>
        <executions>
         <execution>
          <id>sign-artifacts</id>
          <phase>verify</phase>
          <goals>
           <goal>sign</goal>
          </goals>
         </execution>
        </executions>
      </plugin>
     </plugins>
    </build>
   </profile>
  </profiles>

</project>
```

Found in path(s):
* /jolokia-war-1-7-1-war/WEB-INF/lib/json-simple-1-1-1-jar/META-INF/maven/com.googlecode.json-simple/json-simple/pom.xml

1.168 org.apache.servicemix.specs.activation-api-1.2.1 1.2.1_3

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1.170 org.apache.felix.converter 1.0.14

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1.171 apache-felix-file-install 3.7.4

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1.172 scala-java8-compat_2.13 1.0.2

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Manifest-Version: 1.0
Automatic-Module-Name: scala.compat.java8
Bnd-LastModified: 1635385851336
Bundle-Description: scala-java8-compat
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0;descriptio
n=Apache-2.0
Bundle-ManifestVersion: 2
Bundle-Name: scala-java8-compat
Bundle-SymbolicName: org.scala-lang.modules.scala-java8-compat

Bundle-Vendor: org.scala-lang.modules
Bundle-Version: 1.0.2
Created-By: 1.8.0_312 (Temurin)
Export-Package: scala.compat.java8;version="1.0.2";uses:="scala,scala.
collection,scala.collection.convert,scala.compat.java8.converterImpl,
scala.concurrent,scala.concurrent.duration,scala.jdk,scala.reflect,sc
ala.runtime,scala.runtime.java8",scala.compat.java8.FunctionConverter
s;version="1.0.2";uses:="scala,scala.compat.java8,scala.reflect,scala
.runtime",scala.compat.java8.collectionImpl;version="1.0.2";uses:="sc
ala.collection,scala.jdk,scala.reflect",scala.compat.java8.converterI
 mpl;version="1.0.2";uses:="scala,scala.collection,scala.collection.co
nvert,scala.jdk,scala.reflect,scala.runtime",scala.compat.java8.funct
ionConverterImpls;version="1.0.2";uses:="scala,scala.reflect,scala.ru
ntime",scala.compat.java8.wrappers;version="1.0.2"
Implementation-Title: scala-java8-compat
Implementation-URL: http://www.scala-lang.org/
Implementation-Vendor: org.scala-lang.modules
Implementation-Vendor-Id: org.scala-lang.modules
Implementation-Version: 1.0.2
Import-Package: scala;version="[2.13,3)",scala.collection;version="[2.
13,3)",scala.collection.convert;version="[2.13,3)",scala.collection.m
utable;version="[2.13,3)",scala.compat.java8.collectionImpl;version="
[1.0,2)",scala.compat.java8.converterImpl;version="[1.0,2)",scala.com
pat.java8.functionConverterImpls;version="[1.0,2)",scala.compat.java8
.wrappers;version="[1.0,2)",scala.concurrent;version="[2.13,3)",scala
.concurrent.duration;version="[2.13,3)",scala.concurrent.impl;version
="[2.13,3)",scala.jdk;version="[2.13,3)",scala.jdk.javaapi;version="[
 2.13,3)",scala.reflect;version="[2.13,3)",scala.runtime;version="[2.1
3,3)",scala.runtime.java8;version="[2.13,3)",scala.util;version="[2.1
3,3)"
Private-Package: scala.concurrent.java8
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: scala-java8-compat
Specification-Vendor: org.scala-lang.modules
Specification-Version: 1.0.2
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /scala-java8-compat-2-13-1-0-2-2-jar/META-INF/MANIFEST.MF

1.173 scala-parser-combinators_2.13 1.1.2

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Found in path(s):
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/NoPosition.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/ImplicitConversions.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/CharSequenceReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/Lexer.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/JavaTokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PositionCache.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/PackratParsers.scala
*
 /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PagedSeqReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/package.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/Parsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Position.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-
jar/scala/util/parsing/combinator/syntactical/StdTokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/Scanners.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/StdLexical.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/token/Tokens.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/Lexical.scala
*
 /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Positional.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/StreamReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/RegexParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/JSON.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/syntactical/TokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/CharArrayReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/OffsetPosition.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-
jar/scala/util/parsing/combinator/syntactical/StandardTokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/token/StdTokens.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PagedSeq.scala
*
 /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/Parser.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/SubSequence.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/ScalaVersionSpecificPagedSeq.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Reader.scala

1.174 protobuf-java 3.21.12

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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Message.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/FieldType.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionSchemas.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ProtocolMessageEnum.java
*
 /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/LazyStringArrayList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Extension.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CodedOutputStream.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RopeByteString.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SingleFieldBuilder.java
* /protobuf-java-3-21-12-sources-jar/google/protobuf/duration.proto
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CodedOutputStreamWriter.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BufferAllocator.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ProtocolStringList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BlockingService.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/StructuralMessageInfo.java
*
 /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageInfoFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ArrayDecoders.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapFieldLite.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ManifestSchemaFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RawMessageInfo.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/GeneratedMessageInfoFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ByteBufferWriter.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionRegistryFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RpcChannel.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BinaryWriter.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SmallSortedMap.java

* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnsafeByteOperations.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SchemaUtil.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageOrBuilder.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapFieldSchemas.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/FloatArrayList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SchemaFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapField.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CanIgnoreReturnValue.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/TextFormatParseLocation.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageLiteToString.java
* /protobuf-java-3-21-12-sources-jar/google/protobuf/struct.proto
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ByteString.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionRegistryLite.java
*
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CheckReturnValue.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Protobuf.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionSchema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Schema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/DiscardUnknownFieldsParser.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java
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* /protobuf-java-3-21-12-sources-jar/google/protobuf/any.proto
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Internal.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/FieldInfo.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapFieldSchemaFull.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/TypeRegistry.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/AbstractMessageLite.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/OneofInfo.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/LazyFieldLite.java
* /protobuf-java-3-21-12-sources-jar/google/protobuf/api.proto
* /protobuf-java-3-21-12-sources-jar/google/protobuf/empty.proto
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapEntryLite.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/NewInstanceSchemas.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CompileTimeConstant.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/JavaType.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Writer.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/NioByteString.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ProtobufLists.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnknownFieldSchema.java

* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BinaryReader.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageSchema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionSchemaLite.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RpcCallback.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RpcController.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/AbstractParser.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageReflection.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CodedInputStream.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/AbstractProtobufList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/NewInstanceSchemaLite.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/NewInstanceSchemaFull.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ProtobufArrayList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnknownFieldSetLite.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/GeneratedMessageLite.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/TextFormatParseInfoTree.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BooleanArrayList.java
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 /protobuf-java-3-21-12-sources-jar/com/google/protobuf/DescriptorMessageInfoFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Reader.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageInfo.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/NewInstanceSchema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/AllocatedBuffer.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ServiceException.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RpcUtil.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Utf8.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/InlineMe.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionLite.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/InvalidProtocolBufferException.java
* /protobuf-java-3-21-12-sources-jar/google/protobuf/source_context.proto
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1.178 bcel 6.6.0

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1.179 slf4j 2.0.6

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* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/MarkerFactory.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/Marker.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/SubstituteLogger.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/spi/LocationAwareLogger.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/MDC.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/NOPMDCAdapter.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/ILoggerFactory.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/MarkerIgnoringBase.java
*
/slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/BasicMarker.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/NOPLogger.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/NOPLoggerFactory.java

* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/Util.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/FormattingTuple.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/spi/MDCAdapter.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/MessageFormatter.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/helpers/NamedLoggerBase.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/IMarkerFactory.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/LoggerFactory.java
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* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/LoggerFactoryFriend.java
* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/spi/LoggingEventBuilder.java
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* /slf4j-api-2-0-6-sources-1-jar/org/slf4j/spi/DefaultLoggingEventBuilder.java

1.180 protobuf-java-util 3.21.12

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1671050288830
Build-Jdk: 11.0.13
Built-By: kfm
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: 3.21.12
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.21.12";uses:="com.go
ogle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[31.1,32)",com.google.co
mmon.io;version="[31.1,32)",com.google.common.math;version="[31.1,32)",
com.google.common.primitives;version="[31.1,32)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f;version="[3.21,4)",javax.annotation;version="[3.0,4)"
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

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* /protobuf-java-util-3-21-12-1-jar/META-INF/MANIFEST.MF

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1.182 httpcomponents-client 5.2

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1.185 error_prone_annotations 2.18.0

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Found in path(s):
* /error-prone-annotations-2-18-0-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.186 jakarta-servlet-api 6.0.0

1.186.1 Available under license :

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/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/annotation/ServletSecurity$TransportGuarantee.class: binary file matches

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* /bin/grep
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target="_top">license terms.]]>

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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_1_2.dtd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_1_1.dtd
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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_3_1.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_3_1.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_1.xsd
*
/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_3.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_3.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_4_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_5.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_4.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_4.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_2_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_2.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_2.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_5.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_1_4.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_3_0.xsd
*
/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_2_1.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_8.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_4_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_7.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_web_services_1_1.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_3.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_3_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_4.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_6.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_4_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_2.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_web_services_client_1_1.xsd
*
/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_3_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_3_1.xsd

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CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

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requires that the data sent between the client and server
be sent in
such a way that it can't be changed in transit. CONFIDENTIAL means
that the application requires that the data be transmitted in a
fashion that prevents other entities from observing the contents of
the transmission. In most cases, the presence of the INTEGRAL or
CONFIDENTIAL flag will indicate that the use of SSL is required.

Used in: user

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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/package.html
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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_6_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_6_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_10.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_client_2_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_1.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_2_0.xsd
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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings_ja.properties
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_fr.properties
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_ja.properties
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_es.properties
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings_fr.properties
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings.properties
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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_9.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_5_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_5_0.xsd
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Bnd-LastModified: 1652339954197
Build-Jdk: 11.0.2
Built-By: jenkins
Bundle-Description: Jakarta Servlet 6.0
Bundle-DocURL: https://www.eclipse.org
Bundle-License: http://www.eclipse.org/legal/epl-2.0, https://www.gnu.or
g/software/classpath/license.html
Bundle-ManifestVersion: 2
Bundle-Name: Jakarta Servlet
Bundle-SymbolicName: jakarta.servlet-api
Bundle-Vendor: Eclipse Foundation
Bundle-Version: 6.0.0
Export-Package: jakarta.servlet;uses:="jakarta.servlet.annotation,jakart
a.servlet.descriptor";version="6.0.0",jakarta.servlet.annotation;uses:=
"jakarta.servlet";version="6.0.0",jakarta.servlet.descriptor;version="6
.0.0",jakarta.servlet.http;uses:="jakarta.servlet";version="6.0.0",jaka
rta.servlet.resources;version="6.0.0"
Extension-Name: jakarta.servlet
Implementation-Vendor: Eclipse Foundation
Implementation-Vendor-Id: org.eclipse
Implementation-Version:
6.0.0
Import-Package: jakarta.servlet,jakarta.servlet.annotation,jakarta.servl
et.descriptor
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"
Specification-Vendor: Eclipse Foundation
Specification-Version: 6.0
Tool: Bnd-5.1.1.202006162103

Found in path(s):

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1.187 servlet-api 6.0.0

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The original XML Schemas for Java EE Deployment Descriptors:
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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- jakarta_web-services_client_2_0.xsd
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- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
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1.189 gson 2.10.1

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Manifest-Version: 1.0
Created-By: 11.0.16.1 (Azul Systems, Inc.)
Build-Jdk-Spec: 11
Bnd-LastModified: 1673019830620
Bundle-ContactAddress: https://github.com/google/gson
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://w

ww.google.com"
Bundle-DocURL: https://github.com/google/gson/gson
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICEN
SE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:g
it:https://github.com/google/gson.git/gson",developer-connection="scm:g
it:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"
Bundle-SymbolicName: com.google.gson
Bundle-Vendor: Google Gson Project
Bundle-Version: 2.10.1
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.googl
e.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.
10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;v
ersion="2.10.1"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotation
s
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.4.0.202211291949
Multi-Release: true

Found in path(s):
* /gson-2-10-1-jar/META-INF/MANIFEST.MF

1.190 commons-fileupload 1.5

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1.195 fluent-hc 4.5.14

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*
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*
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java

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1.202 json-smart 2.4.10

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* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserBase.java
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* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONStreamAwareEx.java
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 /json-smart-2-4-10-sources-jar/net/minidev/json/writer/CollectionMapper.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserReader.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONObject.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParser.java
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* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONArray.java
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* /json-smart-2-4-10-sources-jar/net/minidev/json/JStylerObj.java
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1.203 bridgeutils 1.7.1-r2

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1.204 zstd-jni 1.5.5-1

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1.205 simpleclient-hotspot 0.16.0

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Manifest-Version: 1.0
Bnd-LastModified: 1655327979490
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Collectors of data from Java Hotspot.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Hotspot
Bundle-SymbolicName: io.prometheus.simpleclient_hotspot
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client
";version="0.16.0"
Import-Package: com.sun.management,io.prometheus.client;version="[0.16,1
)",javax.management,javax.management.openmbean
Tool: Bnd-2.1.0.20130426-122213

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1.206 jline-remote-ssh 3.21.0

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* /jline-remote-ssh-3-21-0-sources-2-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /jline-remote-ssh-3-21-0-sources-2-jar/org/jline/builtins/ssh/ShellCommand.java
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1.207 jline-remote-telnet 3.21.0

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/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/ConnectionData.java
* /jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/Connection.java
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1.208 micrometer-registry-prometheus 1.10.6

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* /micrometer-registry-prometheus-1-10-6-sources-jar/io/micrometer/prometheus/PrometheusConfig.java
* /micrometer-registry-prometheus-1-10-6-sources-jar/io/micrometer/prometheus/PrometheusDistributionSummary.java
* /micrometer-registry-prometheus-1-10-6-sources-jar/io/micrometer/prometheus/MicrometerCollector.java
* /micrometer-registry-prometheus-1-10-6-sources-jar/io/micrometer/prometheus/package-info.java
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Found in path(s):
* /micrometer-registry-prometheus-1-10-6-sources-jar/io/micrometer/prometheus/PrometheusHistogram.java

1.209 slf4j 2.0.7

1.209.1 Available under license :

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1.210 json-smart 2.4.9

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* /json-smart-2-4-9-1-jar/META-INF/maven/net.minidev/json-smart/pom.xml
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Manifest-Version: 1.0
Build-Jdk-Spec: 11
Bundle-Description: JSON (JavaScript Object Notation) is a lightweight
 data-interchange format. It is easy for humans to read and write. It
 is easy for machines to parse and generate. It is based on a subset
of the JavaScript Programming Language, Standard ECMA-262 3rd Edition
 - December 1999. JSON is a text format that is completely language i
ndependent but uses conventions that are familiar to programmers of t
he C-family of languages, including C, C++, C#, Java, JavaScript, Per
l, Python, and many others. These properties make JSON an ideal data-
interchange language.
Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: json-smart
Bundle-SymbolicName: net.minidev.json-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.9
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package:
 net.minidev.json;version="2.4.9";uses:="net.minidev.as
m,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.wr
iter",net.minidev.json.annotate;version="2.4.9",net.minidev.json.pars
er;version="2.4.9";uses:="net.minidev.json.writer",net.minidev.json.r
eader;version="2.4.9";uses:="net.minidev.json",net.minidev.json.write
r;version="2.4.9";uses:="net.minidev.json,net.minidev.json.parser"
Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json;ver
sion="[2.4,3)",net.minidev.json.annotate;version="[2.4,3)",net.minide
v.json.parser;version="[2.4,3)",net.minidev.json.reader;version="[2.4
,3)",net.minidev.json.writer;version="[2.4,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /json-smart-2-4-9-1-jar/META-INF/MANIFEST.MF

1.211 asm 9.5

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* /asm-9-5-sources-1-jar/org/objectweb/asm/ClassTooLargeException.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/SymbolTable.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
*
 /asm-9-5-sources-1-jar/org/objectweb/asm/Constants.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Symbol.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/CurrentFrame.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ConstantDynamic.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Context.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Attribute.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Opcodes.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Label.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Handler.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Edge.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Type.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ClassReader.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/TypePath.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/MethodWriter.java
*
 /asm-9-5-sources-1-jar/org/objectweb/asm/TypeReference.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/RecordComponentWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ByteVector.java

* /asm-9-5-sources-1-jar/org/objectweb/asm/ModuleWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Handle.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Frame.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/RecordComponentVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ClassWriter.java
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* /asm-9-5-sources-1-jar/org/objectweb/asm/package.html
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* /asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java

1.212 bzip2 1.0.8-r6

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.213 musl-obstack 1.2.3-r2

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1.214 aop-alliance 2.6.1

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                    the mandatory attribute for it to be able to import. See \
                    section #3.6.5 of OSGi R4 spec.\
                    Why is this required?\
                    See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
                    By doing this, we allow user have any version of apache-commons lib\
                    in their application class loader hierarchy. They don't even have to\
                    set delegation=false in sun-web.xml! This is the true advantage of\
                    using OSGi.
 Sahoo.\
                \
-->\
<Export-Package>org.aopalliance.*;version=$\{aopalliance.version\}</Export-Package>\
<Private-Package>!*</Private-Package>\
</instructions>\
</configuration>\
<executions>\
<execution>\
<id>osgi-manifest</id>\
<phase>process-classes</phase>\
<goals>\
<goal>manifest</goal>\
</goals>\
</execution>\
</executions>\
</plugin>\
</plugins>\
</build>\
<dependencies>\
<dependency>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>$\{aopalliance.version\}</version>\
<optional>true</optional>\
</dependency>\
</dependencies>\
</project>\
}
```

Found in path(s):

* /aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

1.215 jaxb-runtime 2.3.8

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  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

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* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

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1.216 slf4j-impl 2.20.0

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1.218 maven-resolver-named-locks 1.8.2

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1.219 maven-resolver-connector-basic 1.8.2

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1.221 maven-builder-support 3.8.6

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1.228 maven-settings 3.8.6

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1.234 maven-model-builder 3.8.6

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1.235 maven-resolver-spi 1.8.2

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1.246 h2 2.2.220

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*
* Nicolas Fortin, Atelier SIG, IRSTV FR CNRS 24888
* Support for the operator "&&" as an alias for SPATIAL_INTERSECTS
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* http://cvs.schmorp.de/liblzf/lzf_c.c?view=markup
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*
* According to a mail from Marc Lehmann, it's OK to use his algorithm:
* Date: 2010-07-15 15:57
* Subject: Re: Question about LZF licensing
* ...
* The algorithm is not copyrighted (and cannot be copyrighted afaik) - as long
* as you wrote everything yourself, without copying my code, that's just fine
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* ...
*
* Still I would like to keep his copyright info:
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* /h2-2-2-220-sources-jar/org/h2/security/auth/AuthConfigException.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/H2AuthConfigXml.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/PropertyConfig.java
* /h2-2-2-220-sources-jar/org/h2/api/UserToRolesMapper.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/UserToRolesMapperConfig.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/impl/JaasCredentialsValidator.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/HasConfigProperties.java
* /h2-2-2-220-sources-jar/org/h2/api/CredentialsValidator.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/Configurable.java
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 /h2-2-2-220-sources-jar/org/h2/security/auth/impl/LdapCredentialsValidator.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/impl/StaticRolesMapper.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/DefaultAuthenticator.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/RealmConfig.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/ConfigProperties.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/Authenticator.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/AuthenticatorFactory.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/AuthenticationException.java
* /h2-2-2-220-sources-jar/org/h2/security/auth/impl/StaticUserCredentialsValidator.java
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* /h2-2-2-220-sources-jar/org/h2/command/ddl/AlterTableRenameColumn.java
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* /h2-2-2-220-sources-jar/org/h2/constraint/ConstraintCheck.java
* /h2-2-2-220-sources-jar/org/h2/constraint/Constraint.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/AlterDomainDropConstraint.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/tx/Transaction.java
* /h2-2-2-220-sources-jar/org/h2/value/CaseInsensitiveConcurrentMap.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/AppendOnlyMultiFileStore.java

* /h2-2-2-220-sources-jar/org/h2/server/web/WebThread.java
* /h2-2-2-220-sources-jar/org/h2/table/InformationSchemaTableLegacy.java
*
 /h2-2-2-220-sources-jar/org/h2/util/TempFileDeleter.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/mem/FilePathMemLZF.java
* /h2-2-2-220-sources-jar/org/h2/command/dml/MergeUsing.java
* /h2-2-2-220-sources-jar/org/h2/expression/ExpressionWithVariableParameters.java
* /h2-2-2-220-sources-jar/org/h2/schema/SchemaObject.java
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*
 /h2-2-2-220-sources-jar/org/h2/command/ddl/DropSchema.java
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* /h2-2-2-220-sources-jar/org/h2/expression/function/TruncateValueFunction.java
* /h2-2-2-220-sources-jar/org/h2/expression/ExpressionList.java
*
/h2-2-2-220-sources-jar/org/h2/store/RangeInputStream.java
* /h2-2-2-220-sources-jar/org/h2/util/Tool.java
* /h2-2-2-220-sources-jar/org/h2/expression/CompatibilityDatePlusTimeOperation.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueDecfloat.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/OffHeapStore.java
* /h2-2-2-220-sources-jar/org/h2/value/ExtTypeInfoNumeric.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueJavaObject.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueToObjectConverter2.java
* /h2-2-2-220-sources-jar/org/h2/expression/aggregate/AggregateDataCorr.java
* /h2-2-2-220-sources-jar/org/h2/message/TraceWriter.java
* /h2-2-2-220-sources-jar/org/h2/expression/function/MathFunction.java
* /h2-2-2-220-sources-jar/org/h2/server/web/JakartaDbStarter.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/encrypt/FileEncrypt.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/DropConstant.java
* /h2-2-2-220-sources-jar/org/h2/store/LobStorageInterface.java
* /h2-2-2-220-sources-jar/org/h2/jdbc/meta/DatabaseMetaLegacy.java
*
/h2-2-2-220-sources-jar/org/h2/command/ddl/DropAggregate.java
* /h2-2-2-220-sources-jar/org/h2/expression/aggregate/AggregateDataDistinctWithCounts.java
* /h2-2-2-220-sources-jar/org/h2/expression/condition/ConditionInConstantSet.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/db/MVTempResult.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueEnumBase.java
* /h2-2-2-220-sources-jar/org/h2/bnf/RuleElement.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/CommandWithColumns.java
* /h2-2-2-220-sources-jar/org/h2/message/TraceSystem.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/Page.java
* /h2-2-2-220-sources-jar/org/h2/tools/GUIConsole.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/tx/VersionedBitSet.java
* /h2-2-2-220-sources-jar/org/h2/command/query/ForUpdate.java
* /h2-2-2-220-sources-jar/org/h2/util/IntArray.java
* /h2-2-2-220-sources-jar/org/h2/expression/condition/BooleanTest.java
* /h2-2-2-220-sources-jar/org/h2/result/SimpleResult.java

* /h2-2-2-220-sources-jar/org/h2/schema/InformationSchema.java
*
/h2-2-2-220-sources-jar/org/h2/command/ddl/CreateRole.java
* /h2-2-2-220-sources-jar/org/h2/util/json/JSONNumber.java
* /h2-2-2-220-sources-jar/org/h2/jdbcx/JdbcDataSource.java
* /h2-2-2-220-sources-jar/org/h2/util/IOUtils.java
* /h2-2-2-220-sources-jar/org/h2/index/Index.java
* /h2-2-2-220-sources-jar/org/h2/schema/Domain.java
* /h2-2-2-220-sources-jar/org/h2/index/IndexType.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/db/LobStorageMap.java
* /h2-2-2-220-sources-jar/org/h2/jdbc/JdbcSQLNonTransientConnectionException.java
* /h2-2-2-220-sources-jar/org/h2/result/ResultRemote.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/db/NullValueDataType.java
* /h2-2-2-220-sources-jar/org/h2/engine/Procedure.java
* /h2-2-2-220-sources-jar/org/h2/schema/FunctionAlias.java
* /h2-2-2-220-sources-jar/org/h2/store/RangeReader.java
* /h2-2-2-220-sources-jar/org/h2/api/Aggregate.java
* /h2-2-2-220-sources-jar/org/h2/table/Table.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/db/MVTable.java
*
/h2-2-2-220-sources-jar/org/h2/table/TableFilter.java
* /h2-2-2-220-sources-jar/org/h2/mode/FunctionInfo.java
* /h2-2-2-220-sources-jar/org/h2/store/DataReader.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/DropDomain.java
* /h2-2-2-220-sources-jar/org/h2/api/TableEngine.java
* /h2-2-2-220-sources-jar/org/h2/expression/function/DateTimeFunction.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/rtree/Spatial.java
* /h2-2-2-220-sources-jar/org/h2/command/dml/SetTypes.java
* /h2-2-2-220-sources-jar/org/h2/expression/function/BitFunction.java
* /h2-2-2-220-sources-jar/org/h2/bnf/Bnf.java
* /h2-2-2-220-sources-jar/org/h2/expression/FieldReference.java
* /h2-2-2-220-sources-jar/org/h2/value/VersionedValue.java
* /h2-2-2-220-sources-jar/org/h2/util/Bits.java
* /h2-2-2-220-sources-jar/org/h2/util/geometry/JTSUtils.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/encrypt/XTS.java
* /h2-2-2-220-sources-jar/org/h2/store/FileStore.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/DropRole.java
*
/h2-2-2-220-sources-jar/org/h2/store/fs/FilePathWrapper.java
* /h2-2-2-220-sources-jar/org/h2/command/Token.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/CreateTableData.java
* /h2-2-2-220-sources-jar/org/h2/util/ByteStack.java
* /h2-2-2-220-sources-jar/org/h2/expression/aggregate/Percentile.java
* /h2-2-2-220-sources-jar/org/h2/value/TypeInfo.java
* /h2-2-2-220-sources-jar/org/h2/expression/analysis/WindowFunction.java
* /h2-2-2-220-sources-jar/org/h2/compress/LZFOutputStream.java
* /h2-2-2-220-sources-jar/org/h2/result/SortOrder.java
* /h2-2-2-220-sources-jar/org/h2/expression/ConcatenationOperation.java

* /h2-2-2-220-sources-jar/org/h2/util/json/JSONTarget.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/type/MetaType.java
* /h2-2-2-220-sources-jar/org/h2/expression/analysis/Window.java
* /h2-2-2-220-sources-jar/org/h2/table/IndexColumn.java
* /h2-2-2-220-sources-jar/org/h2/server/web/ConnectionInfo.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueNull.java
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/h2-2-2-220-sources-jar/org/h2/command/query/SelectUnion.java
* /h2-2-2-220-sources-jar/org/h2/util/SourceCompiler.java
* /h2-2-2-220-sources-jar/org/h2/util/ThreadDeadlockDetector.java
* /h2-2-2-220-sources-jar/org/h2/command/query/SelectListColumnResolver.java
* /h2-2-2-220-sources-jar/org/h2/expression/condition/Comparison.java
* /h2-2-2-220-sources-jar/org/h2/expression/ParameterInterface.java
* /h2-2-2-220-sources-jar/org/h2/expression/Alias.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/zip/FilePathZip.java
* /h2-2-2-220-sources-jar/org/h2/value/ExtTypeInfoEnum.java
* /h2-2-2-220-sources-jar/org/h2/table/TableLinkConnection.java
* /h2-2-2-220-sources-jar/org/h2/util/json/JSONBytesSource.java
* /h2-2-2-220-sources-jar/org/h2/util/CacheTQ.java
* /h2-2-2-220-sources-jar/org/h2/util/json/JSONObject.java
* /h2-2-2-220-sources-jar/org/h2/expression/analysis/WindowFunctionType.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/AlterDomainAddConstraint.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/FileUtils.java
*
/h2-2-2-220-sources-jar/org/h2/api/IntervalQualifier.java
* /h2-2-2-220-sources-jar/org/h2/expression/function/table/ArrayTableFunction.java
* /h2-2-2-220-sources-jar/org/h2/store/FileLister.java
* /h2-2-2-220-sources-jar/org/h2/constraint/ConstraintReferential.java
* /h2-2-2-220-sources-jar/org/h2/tools/Csv.java
* /h2-2-2-220-sources-jar/org/h2/jdbc/JdbcResultSet.java
* /h2-2-2-220-sources-jar/org/h2/command/dml/ScriptCommand.java
* /h2-2-2-220-sources-jar/org/h2/jdbc/JdbcSQLTransientException.java
* /h2-2-2-220-sources-jar/org/h2/security/XTEA.java
* /h2-2-2-220-sources-jar/org/h2/util/Cache.java
* /h2-2-2-220-sources-jar/org/h2/expression/function/RegexpFunction.java
* /h2-2-2-220-sources-jar/org/h2/schema/UserAggregate.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/CreateSynonymData.java
* /h2-2-2-220-sources-jar/org/h2/server/ShutdownHandler.java
* /h2-2-2-220-sources-jar/org/h2/index/IndexCondition.java
* /h2-2-2-220-sources-jar/org/h2/index/LinkedIndex.java
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/h2-2-2-220-sources-jar/org/h2/index/VirtualTableCursor.java
* /h2-2-2-220-sources-jar/org/h2/util/NetUtils.java
* /h2-2-2-220-sources-jar/org/h2/result/SimpleRowValue.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/Recorder.java
* /h2-2-2-220-sources-jar/org/h2/expression/TimeZoneOperation.java
* /h2-2-2-220-sources-jar/org/h2/expression/analysis/WindowFrameExclusion.java
* /h2-2-2-220-sources-jar/org/h2/jdbc/JdbcClob.java

* /h2-2-2-220-sources-jar/org/h2/expression/function/DBObjectFunction.java
* /h2-2-2-220-sources-jar/org/h2/store/FileLockMethod.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/disk/FilePathDisk.java
* /h2-2-2-220-sources-jar/org/h2/server/web/WebServlet.java
* /h2-2-2-220-sources-jar/org/h2/util/json/JSONValidationTargetWithUniqueKeys.java
* /h2-2-2-220-sources-jar/org/h2/util/geometry/EWKTUtils.java
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/h2-2-2-220-sources-jar/org/h2/mvstore/tx/RollbackDecisionMaker.java
* /h2-2-2-220-sources-jar/org/h2/store/fs/split/FileSplit.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/AlterTableAddConstraint.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/AlterUser.java
* /h2-2-2-220-sources-jar/org/h2/result/ResultExternal.java
* /h2-2-2-220-sources-jar/org/h2/server/TcpServerThread.java
* /h2-2-2-220-sources-jar/org/h2/expression/Format.java
* /h2-2-2-220-sources-jar/org/h2/expression/function/Function0_1.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/MVStoreTool.java
* /h2-2-2-220-sources-jar/org/h2/util/json/JSONTextSource.java
* /h2-2-2-220-sources-jar/org/h2/bnf/context/DbSchema.java
* /h2-2-2-220-sources-jar/org/h2/table/FunctionTable.java
* /h2-2-2-220-sources-jar/org/h2/expression/function/StringFunction2.java
* /h2-2-2-220-sources-jar/org/h2/engine/DbObject.java
* /h2-2-2-220-sources-jar/org/h2/value/DataType.java
* /h2-2-2-220-sources-jar/org/h2/table/PlanItem.java
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/h2-2-2-220-sources-jar/org/h2/util/MemoryUnmapper.java
* /h2-2-2-220-sources-jar/org/h2/command/dml/Set.java
* /h2-2-2-220-sources-jar/org/h2/expression/aggregate/AggregateDataCollecting.java
* /h2-2-2-220-sources-jar/org/h2/util/StringUtils.java
* /h2-2-2-220-sources-jar/org/h2/util/SortedProperties.java
* /h2-2-2-220-sources-jar/org/h2/engine/Comment.java
* /h2-2-2-220-sources-jar/org/h2/jdbc/JdbcCallableStatement.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueDate.java
* /h2-2-2-220-sources-jar/org/h2/message/TraceWriterAdapter.java
* /h2-2-2-220-sources-jar/org/h2/mvstore/FreeSpaceBitSet.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueVarbinary.java
* /h2-2-2-220-sources-jar/org/h2/bnf/context/DbColumn.java
* /h2-2-2-220-sources-jar/org/h2/expression/condition/ConditionInQuery.java
* /h2-2-2-220-sources-jar/org/h2/result/MergedResult.java
* /h2-2-2-220-sources-jar/org/h2/expression/aggregate/Aggregate.java
* /h2-2-2-220-sources-jar/org/h2/engine/OnExitDatabaseCloser.java
*
/h2-2-2-220-sources-jar/org/h2/schema/Sequence.java
* /h2-2-2-220-sources-jar/org/h2/command/ddl/CreateSynonym.java
* /h2-2-2-220-sources-jar/org/h2/util/geometry/GeometryUtils.java

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* Initial Developer: H2 Group
*/
/**
   * Converts a value to a LocalDate.
   *
   * This method should only be called from Java 8 or later version.
   *
   * @param value
   *         the value to convert
   * @param provider
   *         the cast information provider
   * @return the LocalDate
   */
```

Found in path(s):
* /h2-2-2-220-sources-jar/org/h2/util/JSR310Utils.java
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* Iso8601: Initial Developer: Robert Rathsack (firstName dot lastName at gmx
* dot de)
*/
```

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*
* According to a mail from Alan Tucker to Chris H Miller from IBM,
* the algorithm is in the public domain:
*
* Date: 2010-07-15 15:57
* Subject: Re: Applied Combinatorics Code
*
* Chris,
* The combinatorics algorithms in my textbook are all not under patent
```

* or copyright. They are as much in the public domain as the solution to any
* common question in an undergraduate mathematics course, e.g., in my
* combinatorics course, the solution to the problem of how many arrangements
* there are of the letters in the word MATHEMATICS. I appreciate your due
* diligence.
* -Alan
*/

Found in path(s):
* /h2-2-2-220-sources-jar/org/h2/util/Permutations.java
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* /h2-2-2-220-sources-jar/org/h2/jdbc/JdbcDatabaseMetaDataBackwardsCompat.java
* /h2-2-2-220-sources-jar/org/h2/value/ValueLob.java
* /h2-2-2-220-sources-jar/org/h2/store/LobStorageRemoteInputStream.java
* /h2-2-2-220-sources-jar/org/h2/expression/condition/ConditionAndOrN.java
* /h2-2-2-220-sources-jar/org/h2/jdbc/JdbcConnection.java
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* Initial Developer: Jason Brittain (jason.brittain at gmail.com)
*/

Found in path(s):
* /h2-2-2-220-sources-jar/org/h2/mode/FunctionsMySQL.java

1.247 apache-felix-webconsole-plugins-ds 2.2.0

1.247.1 Available under license :

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1.248 apache-felix-configadmin 1.9.26

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1.251 bouncy-castle 1.76

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Found in path(s):
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha1.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha512.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha256.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Md5.kt
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* /okio-3-5-0-sources-1-jar/commonMain/okio/HashingSink.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/PosixVariant.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/HashingSink.kt
* /okio-3-5-0-sources-1-jar/appleMain/okio/ApplePosixVariant.kt

* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/Path.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/FileSystem.kt
*
 /okio-3-5-0-sources-1-jar/commonMain/okio/ForwardingFileSystem.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/HashingSource.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/FileSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/HashingSource.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/FileMetadata.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/ExperimentalFileSystem.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/FileSink.kt
* /okio-3-5-0-sources-1-jar/unixMain/okio/UnixPosixVariant.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/PosixFileSystem.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/Cinterop.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/Path.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Hmac.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/internal/Path.kt
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* /okio-3-5-0-sources-1-jar/commonMain/okio/Segment.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/SegmentPool.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/ForwardingSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/SegmentPool.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/ForwardingSource.kt

1.256 snake-yaml 2.2

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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Node.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/Event.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
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 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Production.java
*
/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Represent.java
*
/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/DumperOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
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/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
*
/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/Token.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.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: www.
* source-code.biz/base64coder/java
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
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1.257 jandex 3.1.2

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1.258 free-type 2.13.2

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#
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#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h

src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF

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1.259 accessors-smart 2.4.9

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* /accessors-smart-2-4-9-2-jar/META-INF/maven/net.minidev/accessors-smart/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1678198115874
Build-Jdk: 11.0.18
Built-By: uriel
Bundle-Description: Java reflect give poor performance on getter sette
r an constructor calls, accessors-smart use ASM to speed up those cal
ls.
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Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.9
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;version="2.4.9";uses:="org.objectweb.a
sm",net.minidev.asm.ex;version="2.4.9"
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.e
x;version="[2.4,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

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* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java

* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedWith.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/WeakOuter.java
*
/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ObjectiveCName.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Property.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/LoopTranslation.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/OnDealloc.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedLocalRef.java

1.261 hsql-db 2.7.2

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*/
/**
* Comprehensive information about the database as a whole.
* <P>

```
* This interface is implemented by driver vendors to let users know the capabilities
* of a Database Management System (DBMS) in combination with
* the driver based on JDBC technology
* ("JDBC driver") that is used with it.  Different relational DBMSs often
 support
* different features, implement features in different ways, and use different
* data types.  In addition, a driver may implement a feature on top of what the
* DBMS offers.  Information returned by methods in this interface applies
* to the capabilities of a particular driver and a particular DBMS working
* together. Note that as used in this documentation, the term "database" is
* used generically to refer to both the driver and DBMS.
* <P>
* A user for this interface is commonly a tool that needs to discover how to
* deal with the underlying DBMS.  This is especially true for applications
* that are intended to be used with more than one DBMS. For example, a tool might use the method
* <code>getTypeInfo</code> to find out what data types can be used in a
* <code>CREATE TABLE</code> statement.  Or a user might call the method
* <code>supportsCorrelatedSubqueries</code> to see if it is possible to use
* a correlated subquery or <code>supportsBatchUpdates</code> to
 see if it is
* possible to use batch updates.
* <P>
* Some <code>DatabaseMetaData</code> methods return lists of information
* in the form of <code>ResultSet</code> objects.
* Regular <code>ResultSet</code> methods, such as
* <code>getString</code> and <code>getInt</code>, can be used
* to retrieve the data from these <code>ResultSet</code> objects.  If
* a given form of metadata is not available, an empty <code>ResultSet</code>
* will be returned. Additional columns beyond the columns defined to be
* returned by the <code>ResultSet</code> object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their <B>column label</B>.
* <P>
* Some <code>DatabaseMetaData</code> methods take arguments that are
* String patterns.  These arguments all have names such as fooPattern.
* Within a pattern String, "%" means match any substring of 0 or more
* characters, and "_" means match any one character. Only metadata
* entries matching the search
 pattern are returned. If a search pattern
* argument is set to <code>null</code>, that argument's criterion will
* be dropped from the search.
* <P>
* A method that gets information about a feature that the driver does not
* support will throw an <code>SQLException</code>.
* In the case of methods that return a <code>ResultSet</code>
* object, either a <code>ResultSet</code> object (which may be empty) is
* returned or an <code>SQLException</code> is thrown.
*
```

```
* <!-- start release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h1>HSQLDB-Specific Information:</h1>
*
* <h2>Metadata Table Production</h2>
*
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
* implementation provided in the default build filters metadata based on each
* SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
* restriction that only users with the DBA role
* ('admin' users in older HSQLDB parlance) could expect trouble-free
 access to
* all metadata.<p>
*
* Also starting with HSQLDB 1.7.2, the metadata table production implementation
* classes are loaded dynamically, using a precedence policy to find and load
* the richest producer available at runtime.  In the event that no better
* alternative is found, the default minimal (completely restricted) provider
* is selected.  Under this scheme, it is possible for third party packagers to
* create custom distributions targeted at supporting full (design-time),
* custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time |
* hostile environment) metadata table production scenarios. To learn more
* about this option, interested parties can review the documentation and source
* code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>.<p>
*
* Please also note that in addition to the metadata tables produced to
* directly support this
 class, starting with HSQLDB 1.7.2, the default build
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database. <p>
*
* For instance, in the default build, a fairly comprehensive description of
* each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table
* column is included in the REMARKS column of the {@link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])
* getTables(...)} and {@link #getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumns(...)} results, which derive
* from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS,
* respectively.<p>
*
* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded
* in compliance with the SQL:2011 Standard and report the properties of all
* database objects.</p>
*
* <h2>Schema Metadata</h2>
*
* The SQL SCHEMA concept became
```

```
 fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.
*
* <h2>Catalog Metadata</h2>
*
* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views. <p>
*
* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2011), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond.<p>
*
* Similarly, starting with HSQLDB 2.x, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
* database instance which consists of a single, default CATALOG
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt;
 RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
* such as opening, manipulating or querying against multiple database
* catalogs within a single session, not even in a one-at-a-time fashion.
*
* <h2>Index Metadata</h2>
*
* It must still be noted that as of the most recent release, HSQLDB continues
* to ignore the <code>approximate</code> argument of {@link #getIndexInfo
* getIndexInfo()} as no data is returned for CARDINALITY and PAGES coloumns.
*
* <h2>Notes for developers extending metadata table production</h2>
*
* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order.  The reason for this is that results typically come
* back much faster when no &quot;ORDER BY&quot; clause is used. <p>
*
* As such, when adding, extending
 or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.
*
* <hr>
*
* (fredt@users)<br>
```

* (campbell-burnet@users)
*
* <!-- end release-specific documentation -->
*
* @author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.7.2
* @since HSQLDB 1.9.0
* @see org.hsqldb.dbinfo.DatabaseInformation
*/

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/IndexAVLMemory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Tree.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Grid.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAVL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/SQLStatements.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/NodeAVL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferCommon.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAVLDisk.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/IndexAVL.java
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*/
/**
    * provides cross-package access to the proprietary (i.e. non-JDBC)
    * HSQLDB session interface. <P>
    *
    * @return the underlying sessionProxy for this connection
    */

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/PreprocessorException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Parser.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/IResolver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Token.java
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/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Clear.png: binary file matches
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Close.png: binary file matches
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Colors.png: binary file matches

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/pool/JDBCXID.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TableSpaceManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/BlockObjectStore.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ReferenceObject.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptWriterTextColumnNames.java
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*/
/* These are commands which may contain nested commands and/or which
    * require the closing semicolon to send to the DB engine.
    * The BEGIN and DECLARE needed for PL/SQL probably do not need to
    * terminate the line, as we have it specified here, but I'd rather not be
    * too liberal with proprietary SQL like this,
 because it's easy to
    * envision other proprietary or non-proprietary commands beginning with
    * DECLARE or BEGIN. */

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Defines.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementTypes.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementResultUpdate.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/PostgresTransferHelper.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Tokenizer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserDDL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCPool.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/OpTypes.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DatabaseManagerSwing.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/error/Error.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorDataTable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlTimer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/DatabaseURL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileHybrid.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/CommonSwing.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Database.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/WebServerConnection.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformationFull.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/OracleTransferHelper.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LobManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BinaryUUIDType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/HsqlSocketFactory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/Log.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BooleanType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLDisk.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/IntervalType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarFileInputStream.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/GranteeManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/AsciiInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/HsqldbTransferHelper.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCDataSource.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLHybrid.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LineGroupReader.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementInsert.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserDQL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SqlInvariants.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarReader.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/NumberType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCSQLXML.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/RowType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCParameterMetaData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Tokens.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ScannerSearchAlgorithm.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/FunctionCustom.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ClientConnectionHTTP.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformation.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptReaderText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCNClob.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/Logger.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/HsqlSocketFactorySecure.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserTable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/Grantee.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SetFunctionValueAggregate.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLDiskData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Expression.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ValidatingResourceBundle.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/ServerConfiguration.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/McKoiTransferHelper.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCBlob.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCBlobFile.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/ConnectionDialogCommon.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/DatabaseType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCStatement.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/IndexAVLCheck.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SchemaManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementDML.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCCommonDataSource.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorDataChangeMemory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAction.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ClobType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/MainInvoker.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FileUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/DTIType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Preprocessor.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowActionBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserRoutine.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileReader8.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCClobClient.java
* /hsqldb-2-7-2-sources-2-jar/module-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/HsqlDateTime.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FileAccess.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FileAccessRes.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/HsqlException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ArrayType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/BasicResolver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCStatementBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TableDerived.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ClobData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/ResultLob.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ClosableCharArrayWriter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarGeneratorMain.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionLogical.java
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/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/RCData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataFileCacheSession.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementDMQL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/ConnectionSetting.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarFileOutputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/ServerAcl.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/ServerProperties.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAShadowFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/package-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TypeInvariants.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarGenerator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionArithmetic.java
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/hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementCompound.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCDriver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Line.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferHelper.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionJSON.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCRowId.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileNIO.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqltoolRB.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/RefCapablePropertyResourceBundle.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/LineType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TableWorks.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/QuerySpecification.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BitType.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/PgType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/UserManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RangeVariableResolver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Table.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionColumn.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DatabaseManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Constraint.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlToolSprayer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/NodeAVLDiskLarge.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/AuthBeanMultiplexer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionInterface.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/Cache.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/HsqldbSlaveAuthBean.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataFileDefrag.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/OrderedHashSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/OdbcUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LobStoreRAFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSchemaDefinition.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FrameworkLogger.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/Result.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ClobDataID.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferSQLText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlConsoleHandler.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformationMain.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/SimpleLog.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/QueryExpression.java
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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataFileCache.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlTool.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BinaryType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SortAndSlice.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LockFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCResultSetMetaData.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarReaderMain.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DataAccessPoint.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionLike.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/HsqlProperties.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreDataChange.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/java/JavaSystem.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileSettings.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Document.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/EventLogInterface.java
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/hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionArrayAggregate.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptWriterBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BlobData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputTextLog.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HashSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCClobFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSchema.java
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  \q   to Quit.
  \?   lists Special Commands.
  :?   lists Edit-Buffer/History commands.
  *?   lists PL commands.
  /?   displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with '\' and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '*' and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
 SQL Statements are terminated by either unquoted ';' (which executes the
 statement), or a blank line (which moves the statement into the edit buffer
 without executing).
After turning on variable expansion with command "*" (or
 any other PL
command), PL variables may be used in most commands like so: *{PLVARNAME}.
Be aware when using regular expressions on commands, that the regex.s
operate only on the command text after the * or \ prefix, if any.

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerMV2PL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/DateTimeType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/ScriptRunner.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RangeVariable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Scanner.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerCommon.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCPreparedStatement.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSession.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManager2PL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementCommand.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionOp.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Session.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DITableInfo.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionContext.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextCache.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/Type.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/CharacterType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/FunctionSQL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerMVCC.java
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/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCCallableStatement.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/Server.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/HsqlDatabaseProperties.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/Right.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserCommand.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DatabaseManagerCommon.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/CodeSwitcher.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/NodeAVLDisk.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/StringConverter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Transfer.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferTable.java
No license file was found, but licenses were detected in source scan.

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/PrimitiveIterator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/map/ValuePool.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/ResultMetaData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/OdbcPreparedStatement.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SchemaObjectSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LongKeyIntValueHashMap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/RecoverableOdbcFailure.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/DoubleIntIndex.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowInsertSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/IntLookup.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowInsertInterface.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementHandler.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarHeaderField.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCConnectionEventListener.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/RB.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/StringUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/CharArrayWriter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/DbBackupMain.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/User.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TableBase.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptReaderDecode.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LobStoreMem.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TriggerDef.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/IntHashSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/CachedObject.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/pool/JDBCXAConnection.java
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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LongDeque.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/PIFGenerator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ArraySort.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/DoubleLongIndex.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ArrayListIdentity.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowInsertVersioning.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LineReader.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/RefCapableRBInterface.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/StopWatch.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/CSVWriter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCArrayBasic.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/IntKeyHashMapConcurrent.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DirectoryBlockCachedObject.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementCursor.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputBinary.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowOutputInterface.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/AuthUtils.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/FunctionSQLInvoked.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/BitMapCachedObject.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileInJar.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/HsqlSocketRequestHandler.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BlobType.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementExpression.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbcDriver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/NumberSequence.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/Types.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/CountUpDownLatch.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/TimestampData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/BaseList.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Trigger.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/LdapAuthBeanTester.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlArrayHeap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataSpaceManagerSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlDeque.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/JavaObjectDataInternal.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputInterface.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/OdbcPacketOutputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/error/ErrorCode.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementQuery.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/IntIndex.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlToolError.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionBoolean.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/JavaObjectData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileReader.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/FileRecordReader.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/JaasAuthBean.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/IndexStats.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataSpaceManagerBlocks.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/pool/JDBCXAResource.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BinaryData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/ResultConstants.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/AppendableException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Statement.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferDb.java
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*/
```

Found in path(s):
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TableSorter.java

1.262 servlet-api 1.2.0

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1.263 antlr 4.13.0

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

javascriptTypeInitMap ::= [

```
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // anything
 other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
 // Enter a parse tree produced by <file.parserName>#<lname>.
 enter<lname; format="cap">(ctx) {
 \}

 // Exit a parse tree produced by <file.parserName>#<lname>.
 exit<lname;
 format="cap">(ctx) {
 \}

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );

const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

   static grammarFileName = "<parser.grammarFileName>";
   static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
   static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
   static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

   constructor(input) {
      super(input);
      this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
```

```
        this.ruleNames = <parser.name>.ruleNames;
        this.literalNames = <parser.name>.literalNames;
        this.symbolicNames = <parser.name>.symbolicNames;
        <namedActions.members>
    }

    <if(sempredFuncs)>
    sempred(localctx, ruleIndex, predIndex) {
     switch(ruleIndex) {
     <parser.sempredFuncs.values:{f
  | case <f.ruleIndex>:
       return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
        default:
            throw "No predicate with index:" + ruleIndex;
       }
    }

    <sempredFuncs.values; separator="\n">
    <endif>

 <funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>}; separator="\n">
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
```

```
<lexer.name>.prototype.action
 = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;};
 separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
```

```
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<


<currentRule.escapedName>(<currentRule.args:{a | <a.escapedName>}; separator=", ">) {
  let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.escapedName>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
   <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)>
  <exceptions; separator="\n">
  <else> catch (re) {
   if(re instanceof antlr4.error.RecognitionException) {
       localctx.exception = re;
       this._errHandler.reportError(this, re);
       this._errHandler.recover(this, re);
    } else {
     throw re;
    }
  }<endif> finally {
     <finallyAction>
     this.exitRule();
  }
  return localctx;
}

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
```

```
 namedActions,finallyAction,postamble) ::=
<<

<currentRule.escapedName>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
 }
  const _parentctx = this._ctx;
  const _parentState = this.state;
  let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.escapedName>}>);
  let _prevctx
 = localctx;
  const _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  } catch( error) {
     if(error instanceof antlr4.error.RecognitionException) {
       localctx.exception = error;
       this._errHandler.reportError(this, error);
       this._errHandler.recover(this, error);
    } else {
     throw error;
    }
  } finally {
     <finallyAction>
     this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
}

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock,
 ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
```

```
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>)
 {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
```

```
  <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var
 la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
```

```
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice,
 alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>)
 & ~0x1f) === 0
>>
```

```
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.type>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
```

```
  <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this,
 <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip();"
LexerMoreCommand()  ::= "this.more();"
LexerPopModeCommand() ::= "this.popMode();"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
```

```
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::=
 "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> == null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> == null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

ContextTokenGetterDecl(t)      ::= <<
<t.escapedName>() {
  return this.getToken(<parser.name>.<t.name>, 0);
```

```
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
<t.escapedName>_list() {
  return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = function(i) {
 if(i===undefined) {
  i = null;
 }
  if(i===null) {
     return this.getTokens(<parser.name>.<t.name>);
  } else {
     return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.escapedName>() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
  return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.escapedName> = function(i) {
  if(i===undefined) {
     i = null;
  }
  if(i===null) {
     return this.getTypedRuleContexts(<r.ctxName>);
  } else {
     return this.getTypedRuleContext(<r.ctxName>,i);
  }
```

```
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
      if(parent===undefined) {
          parent = null;
      }
      if(invokingState===undefined || invokingState===null) {
          invokingState = -1;
      }
      super(parent, invokingState);
      this.parser = parser;
      this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
  }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
```

```
}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

  constructor(parser, ctx) {

    super(parser);
     <attrs:{a | <a>;}; separator="\n">
     super.copyFrom(ctx);
  }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.escapedName>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
}

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
     return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
     return visitor.visitChildren(this);
  }
}

>>

AttributeDecl(d) ::= "this.<d.escapedName> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
```

```
labelref(x)
 ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label>
 = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
```

```
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {

  static grammarFileName = "<lexer.grammarFileName>";
  static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input)
     this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
     <namedActions.members>
  }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>
```

```
<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
<rest(lexer.escapedModeNames):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>


>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>

/** 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) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

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

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD licence"]
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*/
/*
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.
*/

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
No license file was found, but licenses were detected in source scan.

/*
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*

```
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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about.
 This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
```

```
 if ( e instanceof InvocationTargetException ) {
  e = e.getCause();
 }
 //e.printStackTrace(System.err);
 if
( errMgr==null ) {
  System.err.println("can't find rule "+ruleName+
        " or tree structure error: "+t.toStringTree()
        );
  e.printStackTrace(System.err);
 }
 else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
}
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
 rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, GrammarAST
options,
                  GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }
```

```
public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t,
 GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST
 tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
```

```
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST
 tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST
 tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }
```

```
protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected
 void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
```

```
protected void exitLexerSubrule(GrammarAST tree) { }

protected
 void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) {
 }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}
```

```
grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
  :  ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
     prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
     rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
  )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :
  optionsSpec
  |  delegateGrammars
  |  tokensSpec
  |  channelsSpec
  |  action
  ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
```

```
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
   :   ^(a=ASSIGN ID v=optionValue)
     {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
     }
   ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
   :   ID
   |   STRING_LITERAL
   |   INT
   ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :   ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
```

```
@after {
 exitDelegateGrammar($start);
}
   :  ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
  |  id=ID      {importGrammar(null, $id);}
  ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :  ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :  ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
```

```
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^(
 MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
   opts=optionsSpec*
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, $opts.start, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
```

```
      }
      )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
        ret=ruleReturns?
       thr=throwsSpec?
       loc=locals?
       ( opts=optionsSpec
      |   a=ruleAction {actions.add($a.start);}
      )*
       {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
           $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
           $thr.start, $opts.start,
           $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
           actions, (GrammarAST)input.LT(1));}
       ruleBlock exceptionGroup
       {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
       )
   ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
    : exceptionHandler* finallyClause?
    ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
```

```
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
 ;

finallyClause
@init
 {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
```

```
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      lexerOuterAlternative
     )+
    )
   ;

ruleBlock
@init
 {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
   : ^( BLOCK
     ( {
```

```
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      outerAlternative
     )+
    )
   ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
```

```
@after {
 exitLexerElements($start);
}
  : ^(ALT lexerElement+)
  ;

lexerElement
@init {
 enterLexerElement($start);
}
@after
 {
 exitLexerElement($start);
}
 : lexerAtom
 | lexerSubrule
 |  ACTION      {actionInAlt((ActionAST)$ACTION);}
 |  SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |  ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |  ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
  ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
  :  terminal
  |  ^(NOT blockSet)
  |  blockSet
  |  ^(WILDCARD elementOptions)
  |  WILDCARD
  | LEXER_CHAR_SET
  |  range
  |  ruleref
```

```
  ;

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |  ^(ACTION elementOptions)
 |  SEMPRED
 |  ^(SEMPRED elementOptions)
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT
 elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
  ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
      {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
```

```
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | range
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT
 blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
```

```
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 | block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 | lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
```

```
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init
 {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                     {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
     |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
```

```
  : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
  ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
  : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
   {
   ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
   if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
  ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
  : ^(RANGE STRING_LITERAL STRING_LITERAL)
  ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
  :  ^(STRING_LITERAL elementOptions)
        {stringRef((TerminalAST)$STRING_LITERAL);}
  | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
  | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
  | TOKEN_REF       {tokenRef((TerminalAST)$TOKEN_REF);}
  ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
```

```
  : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
  ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
  : ID       {elementOption(t, $ID, null);}
  | ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  | ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  | ^(ASSIGN
 ID v=ACTION)   {elementOption(t, $ID, $v);}
  | ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
No license file was found, but licenses were detected in source scan.

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
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*/

phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

```
// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context
 $context): void {\}

/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context): void {}
```

```
 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitTerminal(TerminalNode $node): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>
```

```
BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
   return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
```

```
use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
use Antlr\\Antlr4\\Runtime\\RuleContext;
use Antlr\\Antlr4\\Runtime\\Token;
use Antlr\\Antlr4\\Runtime\\TokenStream;
use Antlr\\Antlr4\\Runtime\\Vocabulary;
use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

final class <parser.name> extends <superClass; null="Parser">
{
 <if(parser.tokens)>
 public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
 <endif>

 <if(parser.rules)>
 public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>

 /**
  * @var array\<string>
  */
 public const RULE_NAMES = [
  <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
 ];

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 <atn>
 protected static $atn;
 protected static $decisionToDFA;
 protected static $sharedContextCache;
 <if(namedActions.members)>

 <namedActions.members>
 <endif>


 <parser:(ctor)()>

 private static function initialize(): void
```

```
 {
  if (self::$atn !== null) {
   return;
  }

  RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

  $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

  $decisionToDFA = [];
  for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
   $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
  }

  self::$atn = $atn;
  self::$decisionToDFA
= $decisionToDFA;
  self::$sharedContextCache = new PredictionContextCache();
 }

 public function getGrammarFileName(): string
 {
  return "<parser.grammarFileName>";
 }

 public function getRuleNames(): array
 {
  return self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
     {
         static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
     }
<if(funcs)>
```

```
  <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

  public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
  {
   switch ($ruleIndex) {
   <parser.sempredFuncs.values:{f|
  case <f.ruleIndex>:
   return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

    default:
     return
 true;
    }
  }

  <sempredFuncs.values; separator="\n\n">
<endif>
 }
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

<func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];
```

```
/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

 return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public function __construct(TokenStream
 $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
```

```
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
       return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">): Context\\<currentRule.ctxType>
{
   $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);
```

```
  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">

  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
     $localContext->exception = $exception;
     $this->errorHandler->reportError($this, $exception);
     $this->errorHandler->recover($this, $exception);
  }<endif> finally {

     <finallyAction>
     $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>):
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
```

```
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
```

```
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
```

```
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
   case <i><if(!choice.ast.greedy)>+1<endif>:
     <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
 if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <! should only be one !>
 }

 $this->setState(<choice.loopBackStateNumber>);
```

```
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt
 = 1<if(!choice.ast.greedy)>+1<endif>;

do {
 switch ($alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n\n">
 default:
  <error>
 }

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
```

```
    $this->matchedEOF = true;
   }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
   throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
```

```
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t)
 ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <ctx(t)>-><t.label>->getText()
 : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>-
>start, <ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r):== "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r):== "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"
```

```
PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>
```

```
ContextTokenGetterDecl(t) ::= <<
public function <t.name>(): ?TerminalNode
{
  return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

  return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)
      ::= <<
public function <r.name>(): ?<r.ctxName>
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

  return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>
```

```
LexerRuleContext() ::= "RuleContext"

/**
* The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
    return <parser.name>::RULE_<struct.derivedFromName>;
  }
<if(getters)>

  <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
 {
  parent::copyFrom($context);

  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
```

```
<if(dispatchMethods)>

 <dispatchMethods;
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
    parent::__construct($context);

    $this->copyFrom($context);
  }
<if(getters)>

  <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener): void
{
 if ($listener instanceof <parser.grammarName>Listener) {
    $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
  }
}
>>

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
{
 if ($visitor instanceof
 <parser.grammarName>Visitor) {
    return $visitor->visit<struct.derivedFromName; format="cap">($this);
```

```
  }

 return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name)   ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()                 ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
```

```
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass)
 ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(lexer.escapedChannels)>
  public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
 separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.escapedModeNames))>
```

```
  public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const CHANNEL_NAMES = [
   'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
  ];

  /**
   * @var array\<string>
   */
  public const MODE_NAMES = [
   <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
  ];

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(lexer.literalNames, lexer.symbolicNames)>

  <atn>
  protected static $atn;
  protected static $decisionToDFA;
  protected static $sharedContextCache;
<if(namedActions.members)>

  <namedActions.members>
<endif>

  public function __construct(CharStream $input)
  {
   parent::__construct($input);

   self::initialize();

   $this->interp
 = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
  }

  private static function initialize(): void
  {
```

```
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA = $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public static function vocabulary(): Vocabulary
{
 static $vocabulary;

 return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}

public function getGrammarFileName(): string
{
 return '<lexer.grammarFileName>';
}

public function getRuleNames(): array
{
 return
self::RULE_NAMES;
 }

public function getSerializedATN(): array
{
 return self::SERIALIZED_ATN;
}

/**
 * @return array\<string>
 */
public function getChannelNames(): array
{
 return self::CHANNEL_NAMES;
}
```

```
 /**
  * @return array\<string>
  */
 public function getModeNames(): array
 {
  return self::MODE_NAMES;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
 {
  return self::vocabulary();
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
 [<model.serialized: {s | <s>}; separator=", ", wrap={<\n>    }>];
>>

/**
* 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) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
No license file was found, but licenses were detected in source scan.

/*
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```

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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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 modification, are permitted provided that the following conditions
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```

```
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
```

```
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
      {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
      }
  ;

lexerCommand returns
 [ATNFactory.Handle cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
      {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET    {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;
```

```
labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
 ;

subrule returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
   ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
   | ^(WILDCARD .)   {$p = factory.wildcard($start);}
   | WILDCARD    {$p = factory.wildcard($start);}
   | blockSet[false]   {$p
 = $blockSet.p;}
   |   terminal    {$p = $terminal.p;}
   |   ruleref     {$p = $ruleref.p;}
   ;

ruleref returns [ATNFactory.Handle p]
   : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
   | ^(RULE_REF ARG_ACTION?)       {$p = factory.ruleRef($RULE_REF);}
   | RULE_REF          {$p = factory.ruleRef($RULE_REF);}
   ;

range returns [ATNFactory.Handle p]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
```

```
  ;

terminal returns [ATNFactory.Handle p]
  : ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
  | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
  | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
  | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
  | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
  ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID
 ID)
 | ^(ASSIGN ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g
No license file was found, but licenses were detected in source scan.

```
<!--
 ~ Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
 ~ Use of this file is governed by the BSD 3-clause license that
 ~ can be found in the LICENSE.txt file in the project root.
 -->
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/META-INF/maven/org.antlr/antlr4/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2014 Eric Vergnaud
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
```

```
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED
 WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
```

```
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

}; separator="\n">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
```

```
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
 <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =
```

```
 [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
      action(localctx, actionIndex)
  else:
      raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">
```

```
<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
  if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
  else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
  super().__init__(input, output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
```

```
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | ,
<a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self,
 re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
```

```
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re

  self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
```

```
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
    <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
```

```
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
```

```
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s)
 ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
```

```
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>
```

```
// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
  <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg,
 grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
```

```
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)
 ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self,
 i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
```

```
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
```

```
        super().__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">
        <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

    <getters:{g | <g>}; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
     def copyFrom(self, ctx:ParserRuleContext):
        super().copyFrom(ctx)
        <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
        super().__init__(parser)
        <attrs:{a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
```

```
  else:
     return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
```

```
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
  from typing import TextIO
else:
  from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
  <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">
```

```
<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

   channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None, output:TextIO = sys.stdout):
     super().__init__(input, output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model)
 ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>
```

codeFileExtension() ::= ".py"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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* modification, are permitted provided that the following conditions

```
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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
 int numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
```

```
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//        ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
```

```
 : ^( BLOCK
   (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
   )+
  )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
   :  (binary)=>          binary
                        {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
   |  (prefix)=>          prefix
                        {prefixAlt((AltAST)$start, currentOuterAltNumber);}
   |  (suffix)=>          suffix
                        {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
   |  nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
   ;

binary
 : ^(
 ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
   element+
   recurse epsilonElement*
   )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
   :  ^( ALT elementOptions? recurse element+ )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
   ;

nonLeftRecur
   :  ^(ALT elementOptions? element+)
   ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;
```

```
recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL        {$t = $b;}
   | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
   | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF             {$t = $c;}
 ;

elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)

  ;

elementOption
   : ID
   |   ^(ASSIGN ID ID)
   |   ^(ASSIGN ID STRING_LITERAL)
   |   ^(ASSIGN ID ACTION)
   |   ^(ASSIGN ID INT)
   ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
   | ^(SET setElement+)
   |   RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
```

```
| STRING_LITERAL
| TOKEN_REF
;

ebnf:   block
  |   ^( OPTIONAL block )
  |   ^( CLOSURE block )
  |   ^( POSITIVE_CLOSURE block )
  ;

block
  : ^(BLOCK ACTION? alternative+)
  ;

alternative
 : ^(ALT elementOptions? element+)
  ;

atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
  |  ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
  | ^(TOKEN_REF elementOptions)
| TOKEN_REF
  | ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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```
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```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

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

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
```

```
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
```

```
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void enterEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void exitEveryRule(ParserRuleContext ctx) { }
 /**
  *
 {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitTerminal(TerminalNode node) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
```

```
 @Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
```

```
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T>
 {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public
 static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
```

```
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case
 <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
```

```
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i]
 = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
```

```
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return
 true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
```

```
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
 ::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=","">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble)
 ::=
<<
```

```
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType> <currentRule.escapedName>(int _p<args:{a | , <a>}>) throws RecognitionException
{
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int
 _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble;
 separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
```

```
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration)
 ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt
 = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s)
 ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
```

((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks)
 ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.escapedName>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);

```
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> =
 }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
```

```
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
 ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
 = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.escapedName>"
TokenTypeDecl(t) ::= "int <t.escapedName>;"
TokenListDecl(t) ::= "List\<Token> <t.escapedName> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"
```

```
ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public
 List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.escapedName>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=",
```

```
"><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public static class
 <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener )
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
```

```
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)>
 = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                 ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new
 <ruleName; format="cap">Context(_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>
```

```
recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import
 org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public static final int
  <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public static final int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static String[]
 channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
```

```
separator=", ", wrap, anchor><endif>
 };

 public static String[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 private static String[] makeRuleNames() {
  return new String[] {
   <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 <namedActions.members>

 public <lexer.name>(CharStream input) {
  super(input);
  _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
 }

 @Override
 public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public String[] getChannelNames() { return channelNames; }

 @Override
 public String[] getModeNames()
 { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedJavaATN(model) ::= <<
```

```
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator
 dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** 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)>
>>

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

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
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*/

tree grammar SourceGenTriggers;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import
 java.util.Map;
import java.util.HashMap;
}

@members {
 public OutputModelController controller;
  public boolean hasLookaheadBlock;
```

```
  public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
   this(input);
   this.controller = controller;
  }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
    }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
```

```
 }
 ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions?
 EPSILON)
     {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
  ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE
 b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
 |  block[null, null]     {$omos = $block.omos;}
  ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
```

```
  : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
  ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT
 a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
  | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
  | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
  |   terminal[label]     {$omos = $terminal.omos;}
  |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos =
 controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;
```

```
elementOption
  : ID
  | ^(ASSIGN ID ID)
  | ^(ASSIGN ID STRING_LITERAL)
  | ^(ASSIGN ID ACTION)
  | ^(ASSIGN ID INT)
  ;
```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg
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*/

/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)>
 returns [<userRetvals>]<endif>
  :  ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n       | ">
     )
     (
       <opAlts; separator="\n       | ">
     )*
  ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/StarBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TestRig.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/DartTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/ActionSniffer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNPrinter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Wildcard.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Grammar.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeViewer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python3Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Attribute.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ParserFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/SetAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Rule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/LexerFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/MutableInt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/PHPTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/Trees.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SrcOp.java
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 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Recognizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SemPred.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/v4ParserException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Graph.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/SwiftTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DefaultToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
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 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/CharSupport.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
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 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/Tool.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ParserFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ActionTranslator.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNOptimizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Action.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Utils.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorManager.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ModelElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AltBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/AttributeChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
*
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeTextProvider.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LabeledOp.java
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 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java
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*/

tree grammar BlockSetTransformer;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import
 java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}
```

```
@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
  : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
  | setAlt
  | ebnfBlockSet
  | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
 ;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
 ;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}?
 // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
```

```
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN id=ID v=ID)
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/BlockSetTransformer.g
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*/

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java
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*/

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
 separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
```

```
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
     <! rest(transition) tests for decision states: these nodes have a non-empty
 set of transitions after the first one. !>
     <if(rest(transitions))>
        {
        <! Label on the left side of the record node. !>
        <label>
        |
        <! Named ports in order on right side of record node, no display text. !>
        {<transitions:{t|\<p<i0>>}; separator="|">}}
     <else>
        <label>
     <endif>
     "
  <if(rest(transitions))>
     , shape=record, fixedsize=false
  <else>
     , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>
```

```
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
  pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
  pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
  return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
```

```
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">
```

```
<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f
|
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
  if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
      actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
      self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
      action(localctx, actionIndex)
  else:
      raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
   if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
  else:
```

```
      raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
  super(<parser.name>, self).__init__(input, output=output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
   if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
```

```
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a
| , <a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a
| , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
```

```
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock,
 locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
```

```
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice,
 loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
```

```
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ ==
 <i>:
   <alt>
   pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
      <iteration>
      <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while
 _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
```

```
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
 bits.shift)>) & <bits.calculated>) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>
```

```
ExceptionClause(e, catchArg, catchAction)
 ::= <<
except <catchArg>:
   <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType()
 ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is
 None else self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"
```

```
ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl)
 ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self, i=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
   else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.escapedName>=None}>):
     super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)

 self.parser = parser
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
     return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
     super(<parser.name>.<struct.name>, self).copyFrom(ctx)
     <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
```

```
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
     super(<parser.name>.<struct.name>, self).__init__(parser)
     <attrs:{a | <a>}; separator="\n">
     self.copyFrom(ctx)

   <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
  if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
  if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
     return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
     return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk)
 ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "self._ctx.stop = self._input.LT(-1)"
```

```
recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState,
 self.RULE_<ruleName>)
>>


recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys
```

```
<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
   <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"
```

```
  def __init__(self, input=None, output=sys.stdout):

  super(<lexer.name>, self).__init__(input, output=output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>

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

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
 separator="\n">
>>

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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
 derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grammars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
```

```
//    vs: "You cannot specify two options{}
 sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*            A3Parser.g
*            A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;

// ============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
 does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
```

```
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright
 in this source and also the generated source
//
@lexer::header {
/*
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*/
```

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or
 subrule.
  *  Return token or null if for some reason we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
  if (tokens == null) return null;
  int i = tokens.index();
  int n = tokens.size();
  if (i >= n) i = n - 1; // seems index == n as we lex
  boolean withinOptionsBlock = false;
  while (i >= 0 && i < n) {
   int ttype = tokens.get(i).getType();
   if (withinOptionsBlock) {
    // Ignore rule options content
    if (ttype == OPTIONS) {
     withinOptionsBlock = false;
    }
   }
   else {
    if (ttype == RBRACE) {
     withinOptionsBlock = true;
    }
    else if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
     return tokens.get(i);
    }
   }
   i--;
  }
  return null;
 }
}

// --------
```

```
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
//
 Note how we guide the lexical PATH because we want to issue a descriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer

    (
       // Single line comment, possibly with embedded src/line directives
       // in a similar style to the C pre-processor, allowing generated
       // code to refer the programmer back to the original source code
       // in case of error.
       //

      '/'
         (
            (' $ANTLR')=> ' $ANTLR' SRC
          | ~NLCHARS*
         )

       | // Multi-line comment, which may be a documentation comment
         // if it starts /** (note that we protect against accidentally
         // recognizing a comment /**/ as a documentation comment
         //
         '*' (
              { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
            | { true }?=>  // Required to cover all alts with predicates
```

```
        )

        // Should we support embedded multiline comments here?
        //
        (
           // Pick out end of multiline comment and exit the loop
           // if we find it.
           //
           {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

             // Anything else other than the non-greedy match of
             // the comment close sequence
             //
             .

         )*
       (
           // Look for the comment terminator, but if it is accidentally
           // unterminated, then we will hit EOF, which will trigger the
           // epsilon alt and hence we can issue an error message relative
           // to the start of the unterminated multi-line comment
           //
           '*/'

         | // Unterminated comment!
           //
           {
             // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
           }
        )

     | // There was nothing that made sense following the opening '/' and so
       // we issue an error regarding the malformed comment
       //
       {
         // TODO: Insert error message relative to comment start
         //
       }
   )
   {
     // We do not wish to pass the comments in to the parser. If you are

     // writing a formatter then you will want to preserve the comments off
     // channel, but could just skip and save token space if not.
     //
     $channel=COMMENTS_CHANNEL;
   }
```

```
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ----------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
       (

          ARG_ACTION

        | ('"')=>ACTION_STRING_LITERAL

        | ('\'')=>ACTION_CHAR_LITERAL

        | ~('['|']')
      )*

      ']'
 ;
```

```
// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION ( '?' {$type = SEMPRED;} )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited
 by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
```

```
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we believe to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error
and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
      //
      NESTED_ACTION

    | // What appears to be a literal
      //
      ACTION_CHAR_LITERAL

    | // We have assumed that the target language has C/Java
      // type comments.
      //
      COMMENT

    | // What appears to be a literal
      //
      ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
      //
      ACTION_ESC

    | // Some other single character that is not
      // handled above
      //
      ~('\\'|'"'|'\''|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imbalanced {} block, report
    // with respect to the opening brace.
    //
    {
       // TODO: Report imbalanced {}
```

```
        System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing
 a }");
    }
)
 ;


// Keywords
// --------
// Keywords may not be used as labels for rules or in any other context
// where they would be ambiguous with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS     : 'channels' WSNLCHARS* '{'  ;

IMPORT       : 'import'              ;
FRAGMENT     : 'fragment'            ;
LEXER        : 'lexer'               ;
PARSER       : 'parser'              ;
GRAMMAR      : 'grammar'             ;
RETURNS      : 'returns'             ;
LOCALS       : 'locals'              ;
THROWS       : 'throws'              ;
CATCH        : 'catch'               ;
FINALLY      : 'finally'             ;
MODE         : 'mode'                ;

// -----------
//
 Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON        : ':'
            {
            // scan backwards, looking for a RULE_REF or TOKEN_REF.
            // which would indicate the start of a rule definition.
            // If we see a LPAREN, then it's the start of the subrule.
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
```

```
            if ( t.getType()==RULE_REF ) isLexerRule = false;
            else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
            // else must be subrule; don't alter context
          }
          }
        ;
COLONCOLON   : '::'              ;
COMMA        : ','               ;
SEMI         : ';'
   ;
LPAREN       : '('               ;
RPAREN       : ')'               ;
RARROW       : '->'              ;
LT           : '<'               ;
GT           : '>'               ;
ASSIGN       : '='               ;
QUESTION     : '?'               ;
STAR         : '*'               ;
PLUS         : '+'               ;
PLUS_ASSIGN  : '+='              ;
OR           : '|'               ;
DOLLAR       : '$'               ;
DOT      : '.'               ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE        : '..'              ;
AT           : '@'               ;
POUND        : '#'               ;
NOT          : '~'               ;
RBRACE       : '}'               ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
  {
  if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
  else $type = RULE_REF;
  }
 ;

fragment
NameChar    :   NameStartChar

   |  '0'..'9'
       |  '_'
       |  '\u00B7'
       |  '\u0300'..'\u036F'
       |  '\u203F'..'\u2040'
       ;

fragment
```

```
NameStartChar
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'
        |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do
 not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;
```

```
// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences
 so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// --------------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx
 or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
     (    '\''
     |    // Unterminated string literal
```

```
        {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
        }
    )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
    (
        // The standard escaped character set such as tab, newline, etc...
      'b'|'t'|'n'|'f'|'r'|'\"'|'\\'

      | // A Java style Unicode escape sequence
        UNICODE_ESC

        | // A
 Swift/Hack style Unicode escape sequence
          UNICODE_EXTENDED_ESC

      | // An illegal escape sequence
        ~('b'|'t'|'n'|'f'|'r'|'\"'|'\\'|'u') // \x for any invalid x (make sure to match char here)
        {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-2);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
        }
    )
  ;

fragment
UNICODE_ESC
@init {
```

```
// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get
4. We cannot
      // use an infinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
   (
      (
        HEX_DIGIT  { hCount++; }
         (
            HEX_DIGIT  { hCount++; }
           (
              HEX_DIGIT  { hCount++; }
              (
                 // Four valid hex digits, we are good
                 //
                 HEX_DIGIT { hCount++; }

               | // Three valid digits
              )

            | // Two valid digits
           )

         | // One valid digit
       )
        )
       | // No valid hex digits at all
   )

   // Now check the digit count and issue an error if we need to
   //
   {
    if (hCount < 4) {
   Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
   String lastChar = input.substring(badRange.b,
badRange.b);
   if ( lastChar.codePointAt(0)=='\'' ) {
```

```
    badRange.b--;
   }
   String bad = input.substring(badRange.a, badRange.b);
   Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
   t.setLine(input.getLine());
   t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
   grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
    }
   }
  ;

fragment
UNICODE_EXTENDED_ESC
  :   'u{' // Leadin for unicode extended escape sequence

      HEX_DIGIT+ // One or more hexadecimal digits

      '}' // Leadout for unicode extended escape sequence

      // Now check the digit count and issue an error if we need to
      {
         int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
         if (numDigits > 6) {
            Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
             t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
   }
      }
  ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
    ' '
      | '\t'
      | '\r'
      | '\n'
      | '\f'
```

```
    )+
    {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
   : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :   '\uFEFF' {skip();}
  ;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
```

```
//
ERRCHAR
  : .
    {
       Token t = new CommonToken(input,
 state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
       t.setLine(state.tokenStartLine);
       t.setText(state.text);
       t.setCharPositionInLine(state.tokenStartCharPositionInLine);
       String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
       grammarError(ErrorType.SYNTAX_ERROR, t, msg);
       state.syntaxErrors++;
       skip();
    }
  ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
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*  Copyright (c) 2012-2016 Sam Harwell
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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.
*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
 <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
```

```
* {@link <file.parserName>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4


/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle
 a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |
```

```
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
```

```
<endif>
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
```

```
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname
 |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <if(parser.tokens)>
 <accessLevelNotOpen(parser)>
 enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
 <endif>

 <accessLevelNotOpen(parser)>
 <if(parser.rules)>
```

```
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
 <endif>

 <accessLevelNotOpen(parser)>
 static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

 <vocabulary(parser.literalNames, parser.symbolicNames,
                accessLevelNotOpen(parser))>

 override <accessLevelOpenOK(parser)>
 func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

 override <accessLevelOpenOK(parser)>
 func getRuleNames() -> [String] { return <parser.name>.ruleNames
 }

 override <accessLevelOpenOK(parser)>
 func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

 override <accessLevelOpenOK(parser)>
 func getATN() -> ATN { return <parser.name>._ATN }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 override <accessLevelOpenOK(parser)>
 func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
     default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>

 <accessLevelNotOpen(parser)>
 static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>
```

```
vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap,
 anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
```

```
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
  RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
```

```
<currentRule.ctxType> {
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {

   <finallyAction>
    try! exitRule()
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
   <code>
  <postamble; separator="\n">
   <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>   {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
```

```
 Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx
 =  <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
```

```
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(tokens=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

```
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
```

```
 }
 setState(<choice.loopBackStateNumber>)
 try
 _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

//
 Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

isZero ::= [
```

```
"0": true,
default: false
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l
 | <labelref(l)> = assignmentValue} ; separator="\n">
    }()
<else>try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.escapedName>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
    }()
<else>try match(<parser.name>.Tokens.<m.escapedName>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
```

```
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
  throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode =
```

```
 <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start,
 try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
 }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
```

```
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName)
 ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
```

```
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <SwiftTypeMap.(d.type)><if(d.initValue)>
 = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
```

```
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
             decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 <if(lexer.tokens)>
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <endif>

 <if(lexer.escapedChannels)>
 <accessLevelNotOpen(lexer)>
 static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <if(rest(lexer.escapedModeNames))>
 <accessLevelNotOpen(lexer)>
 static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
 <endif>
 <accessLevelNotOpen(lexer)>
 static
 let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 ]

 <accessLevelNotOpen(lexer)>
 static let modeNames: [String] = [
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 ]

 <accessLevelNotOpen(lexer)>
```

```
static let ruleNames: [String] = [
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
                accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
 return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
 super.init(input)
 _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func
getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

<accessLevelNotOpen(lexer)>
static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>
```

```
SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>

/** 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) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

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

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
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*  modification, are permitted provided that the following conditions
*  are met:
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*     notice, this list of conditions and the following disclaimer.
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 TO, THE IMPLIED WARRANTIES
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*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
  this(input, new RecognizerSharedState());
  this.delegate = delegate;
}

/** force filtering
 (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
  List<Token> chunks = new ArrayList<Token>();
  Token t = nextToken();
  while ( t.getType()!=Token.EOF ) {
     chunks.add(t);
     t = nextToken();
  }
  return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
  :  '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
  ;

LINE_COMMENT
  : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
  ;
```

```
SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;
```

```
fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
No license file was found, but licenses were detected in source scan.

```
// Copyright 2016-2022 The ANTLR Project. All rights reserved.
// Licensed under the BSD-3-Clause license. See LICENSE file in the project root for license information.
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg
No license file was found, but licenses were detected in source scan.

```
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*  Copyright (c) 2013 Sam Harwell
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*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
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*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
```

\<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
 <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |

```
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}}; separator="\n">

 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public
 virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
```

```
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<file.parserName>"/>.
///
 \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
```

```
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//----------------------------------------------------------------------------
// \<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>
//----------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
```

```
// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <parser.name> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public
 const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <parser.name>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
```

```
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext
 _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case
```

```
 <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
 public <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

 public <parser.name>(ITokenStream input, TextWriter output, TextWriter errorOutput)
 : base(input, output, errorOutput)
{
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r,
 actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
```

```
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType>
 _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>
```

```
LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<a.escapedName>}>);
 EnterLeftFactoredRule(_localctx,
 <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context,
 State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
```

```
<endif>
 <code>
 <postamble; separator="\n">
 <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType>
 <currentRule.escapedName>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
```

```
 <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new
 <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
```

```
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts,
 preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
```

```
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble;
 separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice,
 alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
```

```
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) &
 ~0x3f) == 0
>>

// produces smaller bytecode only when bits.tokens contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<tokenType.(t.name)>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <tokenType.(t.name)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
```

```
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
   Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>)
```

```
 {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType()
 ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
```

```
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
```

```
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
| this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
```

```
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public
 override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
```

```
  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()              ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName)
 ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
```

```
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public const int
  <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public const int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static string[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 public static string[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 public static readonly string[] ruleNames = {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <namedActions.members>
```

```
public <lexer.name>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
:
base(input, output, errorOutput)
{
 Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override int[] SerializedAtn { get { return _serializedATN; } }

static <lexer.name>() {
 decisionToDFA = new DFA[_ATN.NumberOfDecisions];
 for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
  decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
 }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
private static int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

initValue(typeName)
 ::= <<
default(<typeName>)
```

>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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*/
/*
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.
*/

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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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1.264 failsafe 3.3.2

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* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/FutureLinkedList.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Call.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CallImpl.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/FailsafeExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedSupplier.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FallbackBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/FallbackImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Functions.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedConsumer.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/AsyncExecutionImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/ContextualRunnable.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/ClosedState.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitBreakerImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/ContextualSupplier.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FailsafeException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/Scheduler.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreaker.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/HalfOpenState.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/SyncExecutionImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/ExecutionImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedFunction.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/OpenState.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedPredicate.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/ExecutionContext.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RetryPolicyImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Assert.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/AsyncRunnable.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/FailsafeFuture.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/DefaultScheduledFuture.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Failsafe.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedBiPredicate.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerOpenException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitState.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/AsyncSupplier.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedRunnable.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicy.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/Fallback.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerBuilder.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimiterBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadFullException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/BulkheadImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Bulkhead.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/internal/BulkheadExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimitExceededException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimiter.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/BurstyRateLimiterStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/SmoothRateLimiterStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimiterConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterStats.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Durations.java

* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Maths.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Lists.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/FailurePolicy.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/DelegatingScheduler.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/AsyncExecutionInternal.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/DelayablePolicy.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CountingCircuitStats.java
*

/failsafe-3-3-2-sources-jar/dev/failsafe/event/EventListener.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicyConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionAttemptedEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitBreakerExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/TimeoutExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionScheduledEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FailurePolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/TimeoutBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/PolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/CircuitBreakerStateChangedEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/EventHandler.java
*
/failsafe-3-3-2-sources-jar/dev/failsafe/PolicyListeners.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/DelayablePolicyConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/FallbackExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/TimeoutConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/PolicyExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Timeout.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Policy.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/SyncExecutionInternal.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/AsyncExecution.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/DelayablePolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Execution.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FallbackConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/TimedCircuitStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/ExecutionResult.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FailurePolicyConfig.java
*
/failsafe-3-3-2-sources-jar/dev/failsafe/internal/RetryPolicyExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/PolicyConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/ExecutionInternal.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionCompletedEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/RandomDelay.java

1.265 antlr 4.13.1

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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.
*/

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

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

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

wantsSingleLineMessage() ::= "true"

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/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about.
 This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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```

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*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

```
public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if
 ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
 rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
```

```
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, GrammarAST
options,
                              GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t,
 GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST
 tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }
```

```
protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST
 tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }
```

```
protected void enterRuleModifier(GrammarAST
 tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected
 void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected
 void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) {
 }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
```

```
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :
   optionsSpec
   |   delegateGrammars
   |   tokensSpec
```

```
  |  channelsSpec
  |  action
  ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
  ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
  :  ^(a=ASSIGN ID v=optionValue)
   {
   if ( block ) blockOption($ID, $v.start); // most specific first
   else if ( rule ) ruleOption($ID, $v.start);
   else grammarOption($ID, $v.start);
   }
  ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
  :  ID
  |  STRING_LITERAL
  |  INT
  ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
```

```
@after {
 exitDelegateGrammars($start);
}
 :  ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
   :  ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
  |  id=ID     {importGrammar(null, $id);}
  ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :  ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID    {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :  ^(CHANNELS channelSpec+)
 ;

channelSpec
```

```
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^(
 MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
```

```
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
   opts=optionsSpec*
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, $opts.start, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
      }
      )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
       ret=ruleReturns?
      thr=throwsSpec?
      loc=locals?
      ( opts=optionsSpec
     |   a=ruleAction {actions.add($a.start);}
     )*
      {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
          $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
          $thr.start, $opts.start,
          $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
          actions, (GrammarAST)input.LT(1));}
      ruleBlock exceptionGroup
      {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
      )
   ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
```

```
 exitExceptionGroup($start);
}
  : exceptionHandler* finallyClause?
  ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
 ;

finallyClause
@init
 {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
```

```
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
     currentOuterAltNumber++;
     }
      lexerOuterAlternative
     )+
    )
   ;
```

```
ruleBlock
@init
 {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      outerAlternative
     )+
    )
   ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
```

```
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
   : ^(ALT lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after
 {
 exitLexerElement($start);
}
 : lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
   ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
```

```
 exitLexerAtom($start);
}
  :   terminal
  |   ^(NOT blockSet)
  |   blockSet
  |   ^(WILDCARD elementOptions)
  |   WILDCARD
  | LEXER_CHAR_SET
  |   range
  |   ruleref
  ;

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |   ^(ACTION elementOptions)
 |   SEMPRED
 |   ^(SEMPRED elementOptions)
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT
 elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
   ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
```

```
 | ID
       {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED     {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | range
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT
 blockSet)
 | ^(NOT block)
 ;

labeledElement
```

```
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 | block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 | lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
```

```
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init
 {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                     {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
```

```
    |   LEXER_CHAR_SET
;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
  : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
  ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
  : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
   {
   ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
   if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
  ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
  : ^(RANGE STRING_LITERAL STRING_LITERAL)
  ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
  :  ^(STRING_LITERAL elementOptions)
       {stringRef((TerminalAST)$STRING_LITERAL);}
  | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
  | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
```

```
  | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
  ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
  : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
  ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
  : ID        {elementOption(t, $ID, null);}
  |  ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  |  ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  |  ^(ASSIGN
 ID v=ACTION)   {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
No license file was found, but licenses were detected in source scan.

```
/*
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>
```

```
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

}; separator="\n">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">
```

```
del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
 <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =
 [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
```

```
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
      actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
      self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
      action(localctx, actionIndex)
  else:
      raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
  if self._predicates is None:
```

```
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
  else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
  super().__init__(input, output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
```

```
    if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | ,
<a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self,
 re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
```

```
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re

  self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
```

```
    <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
```

```
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

```
>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s)
 ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>
```

```
offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
  <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg,
 grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
```

```
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)
 ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self,
 i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
```

```
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
     super().__init__(parent, invokingState)
     self.parser = parser
```

```
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
   def copyFrom(self, ctx:ParserRuleContext):
      super().copyFrom(ctx)
      <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
      super().__init__(parser)
      <attrs:{a | <a>}; separator="\n">
      self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
      listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
      return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
      return visitor.visitChildren(self)
```

```
>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>
```

```
recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
  from typing import TextIO
else:
  from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
  <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
```

```
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

   channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None, output:TextIO = sys.stdout):
     super().__init__(input, output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model)
 ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>

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

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2014 Eric Vergnaud
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED
 WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
```

```
 default:"{}" // anything
 other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
 // Enter a parse tree produced by <file.parserName>#<lname>.
 enter<lname; format="cap">(ctx) {
 \}

 // Exit a parse tree produced by <file.parserName>#<lname>.
 exit<lname;
 format="cap">(ctx) {
 \}

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.
```

```
export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );

const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

   static grammarFileName = "<parser.grammarFileName>";
   static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
   static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
   static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

   constructor(input) {
      super(input);
      this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
      this.ruleNames = <parser.name>.ruleNames;
      this.literalNames = <parser.name>.literalNames;
      this.symbolicNames = <parser.name>.symbolicNames;
      <namedActions.members>
```

```
  }

  <if(sempredFuncs)>
  sempred(localctx, ruleIndex, predIndex) {
   switch(ruleIndex) {
   <parser.sempredFuncs.values:{f
| case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
      default:
          throw "No predicate with index:" + ruleIndex;
     }
  }

  <sempredFuncs.values; separator="\n">
  <endif>

 <funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>}; separator="\n">
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action
 = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
```

```
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;};
 separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
```

```
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<


<currentRule.escapedName>(<currentRule.args:{a | <a.escapedName>}; separator=", ">) {
   let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.escapedName>}>);
   this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
   <locals; separator="\n">
   try {
      <code>
      <postamble; separator="\n">
      <namedActions.after>
   }<if(exceptions)>
   <exceptions; separator="\n">
   <else> catch (re) {
    if(re instanceof antlr4.error.RecognitionException) {
        localctx.exception = re;
        this._errHandler.reportError(this, re);
        this._errHandler.recover(this, re);
     } else {
      throw re;
     }
   }<endif> finally {
      <finallyAction>
      this.exitRule();
   }
   return localctx;
}

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<currentRule.escapedName>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
```

```
 if(_p===undefined) {
     _p = 0;
 }
  const _parentctx = this._ctx;
  const _parentState = this.state;
  let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.escapedName>}>);
  let _prevctx
= localctx;
  const _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  } catch( error) {
     if(error instanceof antlr4.error.RecognitionException) {
       localctx.exception = error;
       this._errHandler.reportError(this, error);
       this._errHandler.recover(this, error);
    } else {
     throw error;
    }
  } finally {
     <finallyAction>
     this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
}

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock,
 ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
```

```
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>)
 {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var
 la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
     <iteration>
```

```
      <alts> <! should only be one !>
   }
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice,
 alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>)
 & ~0x1f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.type>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
   <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
```

```
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this,
 <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip();"
LexerMoreCommand()  ::= "this.more();"
LexerPopModeCommand() ::= "this.popMode();"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
```

```
ListLabelRef(t) ::=
 "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> == null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> == null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

ContextTokenGetterDecl(t)      ::= <<
<t.escapedName>() {
  return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
```

```
ContextTokenListGetterDecl(t)  ::= <<
<t.escapedName>_list() {
  return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = function(i) {
 if(i===undefined) {
  i = null;
 }
  if(i===null) {
     return this.getTokens(<parser.name>.<t.name>);
  } else {
     return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.escapedName>() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
  return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.escapedName> = function(i) {
  if(i===undefined) {
     i = null;
  }
  if(i===null) {
     return this.getTypedRuleContexts(<r.ctxName>);
  } else {
     return this.getTypedRuleContext(<r.ctxName>,i);
  }
};
>>

LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
    if(parent===undefined) {
        parent = null;
    }
    if(invokingState===undefined || invokingState===null) {
        invokingState = -1;
    }
    super(parent, invokingState);
    this.parser = parser;
    this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
    <attrs:{a | <a>}; separator="\n">
    <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
  }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}

>>
```

```
AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

  constructor(parser, ctx) {

     super(parser);
      <attrs:{a | <a>;}; separator="\n">
      super.copyFrom(ctx);
  }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.escapedName>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
}

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
     return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
     return visitor.visitChildren(this);
  }
}

>>

AttributeDecl(d) ::= "this.<d.escapedName> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x)
 ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label>
 = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
  this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
```

```
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {

  static grammarFileName = "<lexer.grammarFileName>";
  static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input)
     this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
     <namedActions.members>
  }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">
```

```
<endif>
<if(rest(lexer.escapedModeNames))>
<rest(lexer.escapedModeNames):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>


>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>

/** 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) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

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

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
 int numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
```

```
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//        ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
   (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
   )+
  )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
```

```
  :  (binary)=>          binary
                    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  (prefix)=>          prefix
                    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  |  (suffix)=>          suffix
                    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^(
 ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
   element+
   recurse epsilonElement*
   )
       {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
  :  ^( ALT elementOptions? recurse element+ )
       {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  ;

nonLeftRecur
  :  ^(ALT elementOptions? element+)
  ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL         {$t = $b;}
   | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
   | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF              {$t = $c;}
 ;
```

```
elementOptions
  : ^(ELEMENT_OPTIONS elementOption*)

 ;

elementOption
  : ID
  |  ^(ASSIGN ID ID)
  |  ^(ASSIGN ID STRING_LITERAL)
  |  ^(ASSIGN ID ACTION)
  |  ^(ASSIGN ID INT)
  ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
  |  RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:  block
  |  ^( OPTIONAL block )
  |  ^( CLOSURE block )
  |  ^( POSITIVE_CLOSURE block )
  ;

block
```

```
  : ^(BLOCK ACTION? alternative+)
  ;

alternative
 : ^(ALT elementOptions? element+)
  ;

atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
  |  ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
  | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
  | ^(WILDCARD elementOptions)
 | WILDCARD
 | ^(DOT ID element)
 ;
```

Found in path(s):

*

/antlr4-4-13-1-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
  this(input, new RecognizerSharedState());
  this.delegate = delegate;
}

/** force filtering
 (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
  List<Token> chunks = new ArrayList<Token>();
  Token t = nextToken();
  while ( t.getType()!=Token.EOF ) {
     chunks.add(t);
     t = nextToken();
  }
  return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
  :  '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
  ;

LINE_COMMENT
```

```
  : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
  ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
  ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
```

: ~'=' (~';')*
;

fragment
WS : (' '|'\t'|'\n'|'\r')+
;

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*/

tree grammar BlockSetTransformer;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import
 java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}
```

```
@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
  : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
  | setAlt
  | ebnfBlockSet
  | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
 ;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
 ;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}?
 // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
```

```
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN id=ID v=ID)
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g
No license file was found, but licenses were detected in source scan.

/*
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*/
/*
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.
*/

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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
No license file was found, but licenses were detected in source scan.

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*/

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
```

```
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
 \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
```

```
 <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}}; separator="\n">

 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
```

```
 public
 virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<file.parserName>"/>.
///
 \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
```

```
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
```

```
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------------------------------------------------------
// \<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>
//------------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <parser.name> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public
 const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
```

```
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <parser.name>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext
 _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
```

```
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case
 <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
 public <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

 public <parser.name>(ITokenStream input, TextWriter output, TextWriter errorOutput)
 : base(input, output, errorOutput)
{
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r,
 actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType>
 _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
```

```
 <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<a.escapedName>}>);
 EnterLeftFactoredRule(_localctx,
 <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
```

```
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context,
 State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
```

```
}

private <currentRule.ctxType>
 <currentRule.escapedName>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new
 <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts,
 preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
```

```
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble;
 separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
```

```
 <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice,
 alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) &
 ~0x3f) == 0
>>

// produces smaller bytecode only when bits.tokens contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<tokenType.(t.name)>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <tokenType.(t.name)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
   Consume();
}
>>
```

```
Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>)
 {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType()
```

```
 ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>
```

```
ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
```

```
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
 | this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public
 override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
```

```
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()              ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName)
```

```
 ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public const int
  <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
```

```
<if(rest(lexer.escapedModeNames))>
public const int
 <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
};

public static string[] modeNames = {
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <lexer.name>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
:
base(input, output, errorOutput)
{
 Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override int[] SerializedAtn { get { return _serializedATN; } }

static <lexer.name>() {
 decisionToDFA = new DFA[_ATN.NumberOfDecisions];
 for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
  decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
 }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
```

```
 <atn>
}
>>

SerializedATN(model) ::= <<
private static int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

initValue(typeName)
 ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
```

```
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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
 derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grammars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
```

```
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{}
 sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*            A3Parser.g
*            A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;

// ============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
 does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {
```

```
 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright
 in this source and also the generated source
//
@lexer::header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

  public CommonTokenStream tokens; // track stream we push to; need for context info
  public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or
 subrule.
  *  Return token or null if for some reason we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
  if (tokens == null) return null;
  int i = tokens.index();
  int n = tokens.size();
  if (i >= n) i = n - 1; // seems index == n as we lex
  boolean withinOptionsBlock = false;
  while (i >= 0 && i < n) {
   int ttype = tokens.get(i).getType();
   if (withinOptionsBlock) {
    // Ignore rule options content
    if (ttype == OPTIONS) {
     withinOptionsBlock = false;
    }
   }
   else {
    if (ttype == RBRACE) {
     withinOptionsBlock = true;
    }
    else if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
     return tokens.get(i);
    }
   }
   i--;
  }
  return null;
 }
}
```

```
// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
//
 Note how we guide the lexical PATH because we want to issue a descriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer

    (
       // Single line comment, possibly with embedded src/line directives
       // in a similar style to the C pre-processor, allowing generated
       // code to refer the programmer back to the original source code
       // in case of error.
       //

      '/'
         (
            (' $ANTLR')=> ' $ANTLR' SRC
          | ~NLCHARS*
         )

       | // Multi-line comment, which may be a documentation comment
         // if it starts /** (note that we protect against accidentally
         // recognizing a comment /**/ as a documentation comment
         //
         '*' (
```

```
            { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
          | { true }?=>  // Required to cover all alts with predicates
            )

            // Should we support embedded multiline comments here?
            //
            (
               // Pick out end of multiline comment and exit the loop
               // if we find it.
               //
               {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

                 // Anything else other than the non-greedy match of
                 // the comment close sequence
                 //
                 .

            )*
          (
               // Look for the comment terminator, but if it is accidentally
               // unterminated, then we will hit EOF, which will trigger the
               // epsilon alt and hence we can issue an error message relative
               // to the start of the unterminated multi-line comment
               //
               '*/'

             | // Unterminated comment!
               //
               {
                 // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
               }
            )

        | // There was nothing that made sense following the opening '/' and so
          // we issue an error regarding the malformed comment
          //
          {
            // TODO: Insert error message relative to comment start
            //
          }
      )
      {
        // We do not wish to pass the comments in to the parser. If you are

        // writing a formatter then you will want to preserve the comments off
        // channel, but could just skip and save token space if not.
        //
```

```
        $channel=COMMENTS_CHANNEL;
      }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ----------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
        (

          ARG_ACTION

        | ('"')=>ACTION_STRING_LITERAL

        | ('\'')=>ACTION_CHAR_LITERAL

        | ~('['|']')
      )*
```

```
      ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION ( '?' {$type = SEMPRED;} )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited
 by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
```

```
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we believe to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error
and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
       //
       ACTION_CHAR_LITERAL

     | // We have assumed that the target language has C/Java
       // type comments.
       //
       COMMENT

     | // What appears to be a literal
       //
       ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
      //
      ACTION_ESC

    | // Some other single character that is not
      // handled above
      //
      ~('\\'|'"'|'\''|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imbalanced {} block, report
    // with respect to the opening brace.
    //
```

```
    {
        // TODO: Report imbalanced {}
        System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing
 a }");
    }
)
 ;


// Keywords
// --------
// Keywords may not be used as labels for rules or in any other context
// where they would be ambiguous with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS     : 'channels' WSNLCHARS* '{'  ;

IMPORT       : 'import'              ;
FRAGMENT     : 'fragment'            ;
LEXER        : 'lexer'               ;
PARSER       : 'parser'              ;
GRAMMAR      : 'grammar'             ;
RETURNS      : 'returns'             ;
LOCALS       : 'locals'              ;
THROWS       : 'throws'              ;
CATCH        : 'catch'               ;
FINALLY      : 'finally'             ;
MODE         : 'mode'                ;

// -----------
//
 Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON        : ':'
            {
            // scan backwards, looking for a RULE_REF or TOKEN_REF.
            // which would indicate the start of a rule definition.
            // If we see a LPAREN, then it's the start of the subrule.
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
```

```
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;
                else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON   : '::'                ;
COMMA        : ','                 ;
SEMI         : ';'
    ;
LPAREN       : '('                 ;
RPAREN       : ')'                 ;
RARROW       : '->'                ;
LT           : '<'                 ;
GT           : '>'                 ;
ASSIGN       : '='                 ;
QUESTION     : '?'                 ;
STAR         : '*'                 ;
PLUS         : '+'                 ;
PLUS_ASSIGN  : '+='                ;
OR           : '|'                 ;
DOLLAR       : '$'                 ;
DOT       : '.'                    ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE        : '..'                ;
AT           : '@'                 ;
POUND        : '#'                 ;
NOT          : '~'                 ;
RBRACE       : '}'                 ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
    {
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
    }
  ;

fragment
NameChar    :   NameStartChar

    |   '0'..'9'
        |   '_'
        |   '\u00B7'
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;
```

```
fragment
NameStartChar
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'
        |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do
 not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
```

```
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences
 so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// --------------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx
 or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
   :  '\" ( ( ESC_SEQ | ~('\\'|'\"'|'\r'|'\n') ) )*
```

```
    (   '\"'
    |   // Unterminated string literal
        {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
        }
    )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
    (
        // The standard escaped character set such as tab, newline, etc...
    'b'|'t'|'n'|'f'|'r'|'\"'|'\\'

    | // A Java style Unicode escape sequence
      UNICODE_ESC

      | // A
 Swift/Hack style Unicode escape sequence
        UNICODE_EXTENDED_ESC

    | // An illegal escape sequence
      ~('b'|'t'|'n'|'f'|'r'|'\"'|'\\'|'u') // \x for any invalid x (make sure to match char here)
      {
          Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
          t.setText(t.getText());
          t.setLine(input.getLine());
          t.setCharPositionInLine(input.getCharPositionInLine()-2);
          grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
      }
    )
  ;

fragment
```

```
UNICODE_ESC
@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get
 4. We cannot
      // use an infinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
    (
      (
        HEX_DIGIT  { hCount++; }
         (
            HEX_DIGIT  { hCount++; }
           (
              HEX_DIGIT  { hCount++; }
              (
                 // Four valid hex digits, we are good
                 //
                 HEX_DIGIT { hCount++; }

               | // Three valid digits
              )

            | // Two valid digits
           )

         | // One valid digit
       )
        )
       | // No valid hex digits at all
    )

    // Now check the digit count and issue an error if we need to
    //
    {
     if (hCount < 4) {
    Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b,
```

```
 badRange.b);
   if ( lastChar.codePointAt(0)=='\' ) {
    badRange.b--;
   }
   String bad = input.substring(badRange.a, badRange.b);
   Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
   t.setLine(input.getLine());
   t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
   grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
    }
   }
  ;

fragment
UNICODE_EXTENDED_ESC
  :   'u{' // Leadin for unicode extended escape sequence

      HEX_DIGIT+ // One or more hexadecimal digits

      '}' // Leadout for unicode extended escape sequence

      // Now check the digit count and issue an error if we need to
      {
         int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
         if (numDigits > 6) {
            Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
             t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
   }
      }
  ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
     ' '
      | '\t'
      | '\r'
```

```
      | '\n'
      | '\f'
    )+
    {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
   : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :   '\uFEFF' {skip();}
  ;

// ------------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
```

```
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
    {
      Token t = new CommonToken(input,
 state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
      grammarError(ErrorType.SYNTAX_ERROR, t, msg);
      state.syntaxErrors++;
      skip();
    }
  ;
```

Found in path(s):
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*/

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
 separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
     <! rest(transition) tests for decision states: these nodes have a non-empty
 set of transitions after the first one. !>
     <if(rest(transitions))>
        {
        <! Label on the left side of the record node. !>
        <label>
        |
        <! Named ports in order on right side of record node, no display text. !>
        {<transitions:{t|\<p<i0>>}; separator="|">}}
     <else>
        <label>
     <endif>
     "
  <if(rest(transitions))>
     , shape=record, fixedsize=false
  <else>
```

, shape=circle, fixedsize=true, width=.55
<endif>
, peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ANTLRParser.g
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*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
)+
)
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]

```
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
      {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
      }
  ;

lexerCommand returns
 [ATNFactory.Handle cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
      {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET    {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
```

```
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
 ;

subrule returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
   ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
   | ^(WILDCARD .)   {$p = factory.wildcard($start);}
   | WILDCARD    {$p = factory.wildcard($start);}
   | blockSet[false]   {$p
 = $blockSet.p;}
   |   terminal    {$p = $terminal.p;}
   |   ruleref     {$p = $ruleref.p;}
   ;

ruleref returns [ATNFactory.Handle p]
   : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
   | ^(RULE_REF ARG_ACTION?)        {$p = factory.ruleRef($RULE_REF);}
   | RULE_REF          {$p = factory.ruleRef($RULE_REF);}
   ;
```

```
range returns [ATNFactory.Handle p]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
  ;

terminal returns [ATNFactory.Handle p]
  :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
  | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
  | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
  | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
  | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
  ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID
 ID)
 | ^(ASSIGN ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ATNBuilder.g
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```
/*
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*/
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/DartTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ModelElement.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNPrinter.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Parser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
*

/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Loop.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/PostScriptDocument.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/SemPred.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LabeledOp.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/TerminalAST.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ArgAction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/ActionAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LabelType.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/SymbolChecks.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/RuleCollector.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/Trees.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ScopeParser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/NotAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/Tool.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TestRig.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/SrcOp.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ParserFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/ActionTranslator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/v4ParserException.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/AttributeResolver.java

* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/DefaultToolListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Action.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleElement.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreeViewer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/CharSupport.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/MutableInt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/SetAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/ParserFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/AltBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ErrorType.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/DOTGenerator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java

* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Wildcard.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreeTextProvider.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/PredAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/Target.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ANTLRMessage.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RuleAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Rule.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ToolMessage.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/TestSetInline.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/CppTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/Graph.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/CodeGenerator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/Utils.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RangeAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java
*

/antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/AttributeDict.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/GoTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/dbg.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/parse/GrammarToken.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/SymbolCollector.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/LexerFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNOptimizer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/AttributeChecks.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Choice.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/CodeGenPipeline.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/OutputModelWalker.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/SwiftTarget.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/OutputModelController.java

* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ErrorSeverity.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/PHPTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ErrorManager.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/StarBlock.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/Python3Target.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Grammar.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LabelElementPair.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Lexer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Attribute.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/TokenVocabParser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/ActionSniffer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/FrequencySet.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Recognizer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/SemanticPipeline.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/TypeScriptTarget.java
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```
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*/

tree grammar SourceGenTriggers;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import
```

```
 java.util.Map;
import java.util.HashMap;
}

@members {
 public OutputModelController controller;
  public boolean hasLookaheadBlock;
  public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
   this(input);
   this.controller = controller;
  }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
    }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
```

```
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions?
 EPSILON)
      {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
   ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE
 b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
```

```
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
| block[null, null]     {$omos = $block.omos;}
  ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
  : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
  ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT
 a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
  | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
  | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
  |   terminal[label]     {$omos = $terminal.omos;}
  |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos =
 controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
```

```
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

elementOption
  : ID
  |  ^(ASSIGN ID ID)
  |  ^(ASSIGN ID STRING_LITERAL)
  |  ^(ASSIGN ID ACTION)
  |  ^(ASSIGN ID INT)
  ;
```

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ANTLRLexer.java
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*/

/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)>
 returns [<userRetvals>]<endif>
  :  ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n       | ">
```

```
    )
    (
      <opAlts; separator="\n       | ">
    )*
  ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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*/

SwiftTypeInitMap ::= [
```

```
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
 <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
```

```
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4


/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle
 a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |

/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
```

```
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
```

```
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname
 |
/**
* {@inheritDoc\}
```

```
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
 i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <if(parser.tokens)>
 <accessLevelNotOpen(parser)>
 enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
 <endif>

 <accessLevelNotOpen(parser)>
 <if(parser.rules)>
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
 <endif>

 <accessLevelNotOpen(parser)>
 static let ruleNames: [String] = [
```

```
 <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(parser.literalNames, parser.symbolicNames,
                accessLevelNotOpen(parser))>

override <accessLevelOpenOK(parser)>
func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

override <accessLevelOpenOK(parser)>
func getRuleNames() -> [String] { return <parser.name>.ruleNames
}

override <accessLevelOpenOK(parser)>
func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

override <accessLevelOpenOK(parser)>
func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
 switch (ruleIndex) {
 <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
    default: return true
 }
 <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>

<accessLevelNotOpen(parser)>
static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap,
```

```
 anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
```

```
  RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType> {
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
```

```
 <namedActions.init>
 <locals; separator="\n">
 defer {

   <finallyAction>
    try! exitRule()
  }
 do {
<if(currentRule.hasLookaheadBlock)>
 var _alt:Int
<endif>
  <code>
 <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
 _localctx.exception = re
 _errHandler.reportError(self, re)
 try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>   {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
 Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
```

```
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx
 =  <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
```

```
<choice.altLook,alts:{look,alt | <cases(tokens=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
```

```
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
 try
 _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
```

```
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

//
 Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

isZero ::= [
"0": true,
default: false
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
```

```
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l
 | <labelref(l)> = assignmentValue} ; separator="\n">
    }()
<else>try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.escapedName>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
    }()
<else>try match(<parser.name>.Tokens.<m.escapedName>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l
```

```
| <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
  throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode =
 <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
```

```
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start,
 try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"
```

```
ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
 }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName)
 ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
```

```
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_
```

```
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <SwiftTypeMap.(d.type)><if(d.initValue)>
 = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
```

```
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
```

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
            decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 <if(lexer.tokens)>
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <endif>

 <if(lexer.escapedChannels)>
 <accessLevelNotOpen(lexer)>
 static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <if(rest(lexer.escapedModeNames))>
 <accessLevelNotOpen(lexer)>
 static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
 <endif>
 <accessLevelNotOpen(lexer)>
 static
 let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 ]

 <accessLevelNotOpen(lexer)>
 static let modeNames: [String] = [
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 ]

 <accessLevelNotOpen(lexer)>
 static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

 <vocabulary(lexer.literalNames, lexer.symbolicNames,
                accessLevelNotOpen(lexer))>
```

```
 <namedActions.members>

 override <accessLevelOpenOK(lexer)>
 func getVocabulary() -> Vocabulary {
  return <lexer.name>.VOCABULARY
 }

 <accessLevelNotOpen(lexer)>
 required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
  super.init(input)
  _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
 }

 override <accessLevelOpenOK(lexer)>
 func
 getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

 override <accessLevelOpenOK(lexer)>
 func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

 override <accessLevelOpenOK(lexer)>
 func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

 override <accessLevelOpenOK(lexer)>
 func getChannelNames() -> [String] { return <lexer.name>.channelNames }

 override <accessLevelOpenOK(lexer)>
 func getModeNames() -> [String] { return <lexer.name>.modeNames }

 override <accessLevelOpenOK(lexer)>
 func getATN() -> ATN { return <lexer.name>._ATN }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>

 <accessLevelNotOpen(lexer)>
 static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>
```

```
/** 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) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

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

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```


```
/** templates used to generate make-compatible dependencies */
```

```
/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
 separator="\n">
>>
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/depend.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

javaTypeInitMap ::= [
 "int":"0",
```

```
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",
 default:"null" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
```

```
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
```

```
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void enterEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void exitEveryRule(ParserRuleContext ctx) { }
 /**
  *
 {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitTerminal(TerminalNode node) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
```

```
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T>
 {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>
```

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public
 static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
```

```
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case
 <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i]
 = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }
```

```
  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return
 true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>
```

```
parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
 ::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=","">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
```

```
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble)
 ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType> <currentRule.escapedName>(int _p<args:{a | , <a>}>) throws RecognitionException
{
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
```

```
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int
 _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble;
 separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
```

```
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration)
 ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
```

```
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt
 = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
```

```
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s)
 ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
```

```
%>

cases(tokens) ::= <<
<tokens:{t | case <t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks)
 ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.escapedName>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> =
 }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
```

```
 ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
 = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.escapedName>"
TokenTypeDecl(t) ::= "int <t.escapedName>;"
TokenListDecl(t) ::= "List\<Token> <t.escapedName> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public
 List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
```

```
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.escapedName>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=",
 "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
```

```
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public static class
 <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener )
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)>
 = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                 ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
```

```
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new
 <ruleName; format="cap">Context(_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import
```

```
 org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue", "this-escape"})
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public static final int
  <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public static final int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static
 String[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 public static String[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 private static String[] makeRuleNames() {
  return new String[] {
   <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 <namedActions.members>

 public <lexer.name>(CharStream input) {
```

```
 super(input);
 _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
 }

 @Override
 public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public String[] getChannelNames() { return channelNames; }

 @Override
 public
 String[] getModeNames() { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
```

```
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator
 dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** 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)>
>>

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

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
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 -->
```

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```
*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

```
phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
```

```
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context
 $context): void {\}

/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
```

```
 */
 public function enterEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitTerminal(TerminalNode $node): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
```

```
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
   return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\TokenStream;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <parser.name> extends <superClass; null="Parser">
 {
  <if(parser.tokens)>
  public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
  <endif>

  <if(parser.rules)>
  public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(parser.literalNames, parser.symbolicNames)>

  <atn>
  protected static $atn;
  protected static $decisionToDFA;
```

```
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>


<parser:(ctor)()>

private static function initialize(): void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA
= $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName(): string
{
 return "<parser.grammarFileName>";
}

public function getRuleNames(): array
{
 return self::RULE_NAMES;
}

public function getSerializedATN(): array
{
 return self::SERIALIZED_ATN;
}

public function getATN(): ATN
{
 return self::$atn;
```

```
  }

  public function getVocabulary(): Vocabulary
      {
          static $vocabulary;

   return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
      }
<if(funcs)>

  <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

  public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
  {
   switch ($ruleIndex) {
   <parser.sempredFuncs.values:{f|
  case <f.ruleIndex>:
   return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

    default:
     return
 true;
    }
  }

  <sempredFuncs.values; separator="\n\n">
<endif>
 }
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

<func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>
```

```
vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

 return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>
```

```
parser_ctor(p) ::= <<
public function __construct(TokenStream
 $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
       return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">): Context\\<currentRule.ctxType>
{
  $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">

  try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
    $localContext->exception = $exception;
    $this->errorHandler->reportError($this, $exception);
    $this->errorHandler->recover($this, $exception);
  }<endif> finally {

    <finallyAction>
    $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>):
```

```
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
```

```
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
```

```
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
   case <i><if(!choice.ast.greedy)>+1<endif>:
     <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
```

```
$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
 if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <! should only be one !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt
 = 1<if(!choice.ast.greedy)>+1<endif>;

do {
 switch ($alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n\n">
 default:
  <error>
 }

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
```

```
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
  }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
  throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
```

```
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t)
 ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <ctx(t)>-><t.label>->getText()
 : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>-
>start, <ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r):= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r):= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"
```

```
AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>
```

```
<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>(): ?TerminalNode
{
  return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

  return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)
      ::= <<
public function <r.name>(): ?<r.ctxName>
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
```

```
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

   return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
* The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
     return <parser.name>::RULE_<struct.derivedFromName>;
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
```

```
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
 {
  parent::copyFrom($context);

  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods;
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
    parent::__construct($context);

    $this->copyFrom($context);
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener): void
{
 if ($listener instanceof <parser.grammarName>Listener) {
    $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
   }
```

```
}
>>

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
{
 if ($visitor instanceof
 <parser.grammarName>Visitor) {
    return $visitor->visit<struct.derivedFromName; format="cap">($this);
   }

 return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name)   ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()                ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
```

```
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass)
 ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
```

```
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(lexer.escapedChannels)>
  public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
 separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.escapedModeNames))>
  public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const CHANNEL_NAMES = [
   'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
  ];

  /**
   * @var array\<string>
   */
  public const MODE_NAMES = [
   <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
  ];

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(lexer.literalNames, lexer.symbolicNames)>

  <atn>
  protected static $atn;
  protected static $decisionToDFA;
  protected static $sharedContextCache;
<if(namedActions.members)>

  <namedActions.members>
<endif>

  public function __construct(CharStream $input)
  {
   parent::__construct($input);
```

```
 self::initialize();

 $this->interp
= new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
 }

 private static function initialize(): void
 {
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA = $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
 }

 public static function vocabulary(): Vocabulary
 {
 static $vocabulary;

 return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
 }

 public function getGrammarFileName(): string
 {
 return '<lexer.grammarFileName>';
 }

 public function getRuleNames(): array
 {
 return
self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
 return self::SERIALIZED_ATN;
```

```
 }

 /**
  * @return array\<string>
  */
 public function getChannelNames(): array
 {
  return self::CHANNEL_NAMES;
 }

 /**
  * @return array\<string>
  */
 public function getModeNames(): array
 {
  return self::MODE_NAMES;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
 {
  return self::vocabulary();
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
 [<model.serialized: {s | <s>}; separator=", ", wrap={<\n>    }>];
>>

/**
* 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) ::= <<
<phpTypeInitMap.(typeName)>
>>

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

Found in path(s):

* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
No license file was found, but licenses were detected in source scan.

/*
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*/

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.java

1.266 jackson-dataformat-csv 2.14.2

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1.267 jaxb-core 2.3.8

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1.268 jline 3.21.0

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* /jline-3-21-0-sources-3-jar/org/jline/reader/Expander.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/WCWidth.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Reference.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/package-info.java

* /jline-3-21-0-sources-3-jar/org/jline/utils/InputStreamReader.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Levenshtein.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ShutdownHooks.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/MouseSupport.java
*
 /jline-3-21-0-sources-3-jar/org/jline/utils/package-info.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Binding.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/package-info.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/Cursor.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Source.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/DiffHelper.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/history/package-info.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Widget.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/NullCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/spi/Pty.java
*
 /jline-3-21-0-sources-3-jar/org/jline/utils/OSUtils.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/UndoTree.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedString.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ExecHelper.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ClosedException.java
* /jline-3-21-0-sources-3-jar/org/jline/keymap/KeyMap.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/MouseEvent.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/UserInterruptException.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Macro.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/Attributes.java
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 /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionData.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionManager.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/Connection.java
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* /jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
* /jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-style/pom.xml
* /jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
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* /jline-3-21-0-sources-3-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/TTop.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/SystemRegistryImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/SystemHighlighter.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Styles.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/history/DefaultHistory.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/TerminalBuilder.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/TailTipWidgets.java
*
 /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedCharSequence.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Nano.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/LineReader.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/PrintAboveWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/DefaultPrinter.java
* /jline-3-21-0-sources-3-jar/org/jline/console/ArgDesc.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/LineReaderImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedStyle.java
* /jline-3-21-0-sources-3-jar/org/jline/console/SystemRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Commands.java
* /jline-3-21-0-sources-3-jar/org/jline/console/Printer.java
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* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/Widgets.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/EndOfFileException.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
*
 /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/console/CmdDesc.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/console/CommandRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/Builtins.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/LineReaderBuilder.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/AutosuggestionWidgets.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/JlineCommandRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Display.java
*
 /jline-3-21-0-sources-3-jar/org/jline/console/CmdLine.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/spi/JnaSupport.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/console/CommandMethods.java
* /jline-3-21-0-sources-3-jar/org/jline/console/ScriptEngine.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultParser.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/ConsoleOptionGetter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/JnaNativePty.java

* /jline-3-21-0-sources-3-jar/org/jline/terminal/spi/JansiSupport.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/AutopairWidgets.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/CompletionMatcher.java
*
 /jline-3-21-0-sources-3-jar/org/jline/console/CommandInput.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Log.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ColorPalette.java
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* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionListener.java
*
/jline-3-21-0-sources-3-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
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palegreen3a
darkseagreen3
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skyblue1

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palegreen1
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darkslategray1
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magenta3
darkvioleta
purpleb
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
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lightsalmon3
rosybrown
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mediumpurple2a
mediumpurple1
gold3
darkkhaki
navajowhite3
grey69
lightsteelblue3
lightsteelblue
yellow3
darkolivegreen3b
darkseagreen3a
darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2
palegreen1a
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darkseagreen1
paleturquoise1
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deeppink3
deeppink3a
magenta3a
magenta3b
magenta2

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hotpink2
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pink3
plum3
violet
gold3a
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thistle3
plum2
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palevioletred1
orchid2
orchid1

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lightgoldenrod2a
lightgoldenrod2b
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thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
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grey93

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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
micro_line_size, mls, Yg
number_of_pins, npins, Yh
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, el1, 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
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key_f14, kf14, F4
key_f15, kf15, F5
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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, kil1, kA
key_left, kcub1, kl
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, kprt, %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
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
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
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
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, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
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, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
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

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* /jline-3-21-0-sources-3-jar/org/jline/utils/AnsiWriter.java
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* /jline-3-21-0-sources-3-jar/org/jline/utils/Colors.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleSource.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/KillRing.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingReader.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/InputRC.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleExpression.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleFactory.java

* /jline-3-21-0-sources-3-jar/org/jline/terminal/Terminal.java
*
 /jline-3-21-0-sources-3-jar/org/jline/reader/Completer.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/keymap/BindingReader.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Curses.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/NfaMatcher.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/ParsedLine.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/CompletingParsedLine.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/StyleResolver.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/Size.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/MaskingCallback.java
* /jline-3-21-0-sources-3-jar/org/jline/style/Styler.java
*
 /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlocking.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/History.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/ExternalTerminal.java
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* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleResolver.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleBundle.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-3-21-0-sources-3-jar/org/jline/style/MemoryStyleSource.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/BufferImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/SimpleMaskingCallback.java
*
 /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/PumpReader.java

* /jline-3-21-0-sources-3-jar/org/jline/utils/WriterOutputStream.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/style/NopStyleSource.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/Telnet.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyledWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/style/InterpolationHelper.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/ssh/ShellCommand.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Buffer.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
*
/jline-3-21-0-sources-3-jar/org/jline/style/StyleColor.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
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* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Status.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Editor.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Candidate.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/InfoCmp.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Tmux.java
*
/jline-3-21-0-sources-3-jar/org/jline/builtins/ConfigurationPath.java

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* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MutableTrieSet.java
* /triemap-1-3-1-sources-jar/module-info.java
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```
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* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/AbstractKeySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/LNodeEntry.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/Equivalence.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/INode.java
*
 /triemap-1-3-1-sources-jar/tech/pantheon/triemap/LNodeEntries.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/ImmutableKeySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MutableTrieMap.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/LNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/CNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/FailedNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MutableKeySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/TNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/SNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/BasicNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/TrieMap.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MainNode.java
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* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/AbstractIterator.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/EntryNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/AbstractEntrySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MutableIterator.java
*
/triemap-1-3-1-sources-jar/tech/pantheon/triemap/Constants.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MutableEntrySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/ImmutableEntrySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/LookupResult.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/SerializationProxy.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/PresencePredicate.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/ImmutableIterator.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/package-info.java

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1.272 httpcomponents-client 4.5.14

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.274 jackson 2.15.3

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* /okio-3-6-0-sources-jar/commonMain/okio/internal/FileSystem.kt
* /okio-3-6-0-sources-jar/commonMain/okio/FileHandle.kt
* /okio-3-6-0-sources-jar/unixMain/okio/UnixFileHandle.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/FileSystem.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/Okio.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Timeout.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/RealBufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Buffer.kt
* /okio-3-6-0-sources-jar/commonMain/okio/BufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Timeout.kt
*
 /okio-3-6-0-sources-jar/commonMain/okio/Buffer.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Sink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/Buffer.kt
* /okio-3-6-0-sources-jar/commonMain/okio/RealBufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Sink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Source.kt
* /okio-3-6-0-sources-jar/commonMain/okio/BufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/RealBufferedSink.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/internal/-Utf8.kt
* /okio-3-6-0-sources-jar/nonAppleMain/okio/ByteString.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Util.kt
* /okio-3-6-0-sources-jar/commonMain/okio/CommonPlatform.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/ByteString.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/NonJvmPlatform.kt
*
 /okio-3-6-0-sources-jar/commonMain/okio/ByteString.kt
* /okio-3-6-0-sources-jar/appleMain/okio/ByteString.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/internal/RealBufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt
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* /okio-3-6-0-sources-jar/nonJvmMain/okio/RealBufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Segment.kt
* /okio-3-6-0-sources-jar/commonMain/okio/SegmentPool.kt
* /okio-3-6-0-sources-jar/commonMain/okio/ForwardingSource.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/SegmentPool.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/ForwardingSource.kt
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* /okio-3-6-0-sources-jar/nonAppleMain/okio/SegmentedByteString.kt
* /okio-3-6-0-sources-jar/commonMain/okio/SegmentedByteString.kt
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* /okio-3-6-0-sources-jar/nativeMain/okio/Cinterop.kt
* /okio-3-6-0-sources-jar/unixMain/okio/UnixPosixVariant.kt

* /okio-3-6-0-sources-jar/commonMain/okio/internal/Path.kt
* /okio-3-6-0-sources-jar/linuxMain/okio/LinuxPosixVariant.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/PosixFileSystem.kt
* /okio-3-6-0-sources-jar/hashFunctions/okio/internal/Hmac.kt
*
/okio-3-6-0-sources-jar/nativeMain/okio/PosixVariant.kt
* /okio-3-6-0-sources-jar/commonMain/okio/HashingSource.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/FileSource.kt
* /okio-3-6-0-sources-jar/appleMain/okio/ApplePosixVariant.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/FileSink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/FileSystem.kt
* /okio-3-6-0-sources-jar/commonMain/okio/HashingSink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/FileMetadata.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Path.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/HashingSink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt
* /okio-3-6-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/HashingSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Path.kt

1.277 libcxxabi 1.1.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1695799258578
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression libr
ary
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
6_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
ve/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xer
ial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x
86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macos
x;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dyl
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py/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x86-64
,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;
processor=x64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;

osname=linux;processor=amd64,org/xerial/snappy/native/Linux/x86/libsn
appyjava.so;osname=linux;processor=x86,org/xerial/snappy/native/Linux
/aarch64/libsnappyjava.so;osname=linux;processor=aarch64,org/xerial/s
nappy/native/Linux/riscv64/libsnappyjava.so;osname=linux;processor=ri
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ve/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x,org/xeri
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/xerial/snappy/native/AIX/ppc64/libsnappyjava.a;osname=aix;processor=
ppc64,org/xerial/snappy/native/SunOS/x86/libsnappyjava.so;osname=suno
s;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.s
o;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/
libsnappyjava.so;osname=sunos;processor=sparc
Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna
ppy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch
64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.nativ
e.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.na
tive.Linux.armv7,org.xerial.snappy.native.Linux.ppc,org.xerial.snappy
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,org.xerial.snappy.native.Mac.aarch64,org.xerial.snappy.native.Mac.x8
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rial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org
.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.a
arch64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.
Windows.x86_64
Require-Capability:
osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org

Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
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1.278 snappy-java 1.1.7

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* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyBundleActivator.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyErrorCode.java
*
 /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/BitShuffleNative.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/BitShuffleType.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyOutputStream.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyError.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/Snappy.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/BitShuffle.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/package-info.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyException.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyLoader.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyInputStream.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyCodec.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyNative.java

1.279 guava 32.1.3-jre

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*/

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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ThreadExecutorMap.java
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 /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/svm/package-info.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ObjectPool.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/Hidden.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ReferenceCountUpdater.java
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  <dependency>
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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<scm>
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 <tag>HEAD</tag>
</scm>

<developers>
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 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
```

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 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
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 <junit.version>4.12</junit.version>
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</properties>
</project>

Found
 in path(s):
* /netty-common-4-1-100-final-sources-1-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ByteProcessor.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/MathUtil.java
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/logging/MessageFormatter.java
*
/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/logging/FormattingTuple.java
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/NetUtilInitializations.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/NetUtilSubstitutions.java

* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/DomainWildcardMappingBuilder.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ByteProcessorUtils.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ResourcesUtil.java
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/NettyRuntime.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/SuppressForbidden.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ObjectCleaner.java
*
 /netty-common-4-1-100-final-sources-1-jar/io/netty/util/UncheckedBooleanSupplier.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/LongAdderCounter.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/PriorityQueue.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ReflectionUtil.java
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 /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/GenericFutureListener.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/DefaultPromise.java

* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/EmptyArrays.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/FutureListener.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/Version.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ReferenceCountUtil.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/PendingWrite.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ReadOnlyIterator.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/Future.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
*
 /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/RecyclableArrayList.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ReferenceCounted.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/Promise.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/AbstractFuture.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/PlatformDependent0.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/CompleteFuture.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ResourceLeakException.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/PromiseTask.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/AbstractReferenceCounted.java
*
 /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/logging/package-info.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/Recycler.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ResourceLeak.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/ScheduledFutureTask.java
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ConcurrentSet.java
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/ScheduledFuture.java
*
 /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ResourceLeakDetector.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/ConstantPool.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/ProgressivePromise.java
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* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/PriorityQueueNode.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/ThreadProperties.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/DomainMappingBuilder.java
*
 /netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/LongCounter.java
* /netty-common-4-1-100-final-sources-1-jar/io/netty/util/AsyncMapping.java

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#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h

src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF

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1.289 jackson-annotations 2.15.3

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1.298 apache-karaf-deployer-wrap 4.4.4

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1.299 metrics-jmx 4.2.20

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17
Bundle-Description: Metrics is a Java library which gives you unparall

eled insight into what your code does in production. Metrics p
rovides a powerful toolkit of ways to measure the behavior of critica
l components in your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Core
Bundle-SymbolicName: io.dropwizard.metrics.core
Bundle-Version: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.20
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jmx-4-2-20-zip/metrics-core-4-2-20-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk-Spec: 17
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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,j
avax.management";version="4.2.20"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.2.20
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

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* /metrics-jmx-4-2-20-zip/metrics-jmx-4-2-20-jar/META-INF/MANIFEST.MF

1.300 apache-karaf-webconsole-instance 4.4.4

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1.301 keycloak-undertow-adapter-spi 18.0.2

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Undertow Integration SPI
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Undertow Integration SPI
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-undertow-adapter-spi
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-

undertow-adapter-spi
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-under
tow-adapter-spi/
Bnd-LastModified: 1656070085957
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak Undertow Integration SPI
Bundle-SymbolicName: org.keycloak.keycloak-undertow-adapter-spi
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.undertow;uses:="javax.servlet.http
,io.undertow.servlet.api,io.undertow.server,io.undertow.util,io.underto
w.server.session,io.undertow.servlet.handlers,io.undertow.servlet.spec,
io.undertow.servlet.util,org.keycloak.adapters.spi,javax.servlet,io.und
ertow.server.handlers,io.undertow.server.handlers.form,org.keycloak.com
mon.util,javax.security.cert,org.jboss.logging";version="18.0.2"
Fragment-Host: org.keycloak.keycloak-undertow-adapter
Implementation-Vendor-Id: org.keycloak
Import-Package: io.undertow.server;version="[1.4,3)",io.undertow.server.
handlers;version="[1.4,3)",io.undertow.server.handlers.form;version="[1
.4,3)",io.undertow.server.session;version="[1.4,3)",io.undertow.servlet
.api;version="[1.4,3)",io.undertow.servlet.handlers;version="[1.4,3)",i
o.undertow.servlet.spec;version="[1.4,3)",io.undertow.servlet.util;vers
ion="[1.4,3)",io.undertow.util;version="[1.4,3)",javax.security.cert;re
solution:=optional,javax.servlet;version="[3.0,4)";resolution:=optional
,javax.servlet.http;version="[3.0,4)";resolution:=optional,org.jboss.lo
gging;version="[3.4,4)";resolution:=optional,org.keycloak.adapters.spi;
version="[18.0,19)";resolution:=optional,org.keycloak.common.util;versi
on="[18.0,19)";resolution:=optional
Tool: Bnd-1.50.0

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1.302 jersey-container-servlet 2.41

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1.322 apache-karaf-jaas-command 4.4.4

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1.323 keycloak-osgi-adapter 18.0.2

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak OSGI Adapter
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak OSGI Adapter
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-osgi-adapter
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
osgi-adapter
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-osgi-
adapter/
Bnd-LastModified: 1656070214172
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-Description: Keycloak SSO
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak OSGI Adapter
Bundle-SymbolicName: org.keycloak.keycloak-osgi-adapter
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.osgi;uses:="org.osgi.framework,org
.keycloak.adapters.spi,org.keycloak.adapters,org.jboss.logging,org.osgi
.util.tracker,org.ops4j.pax.web.service,org.osgi.service.http,org.eclip
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e.cm";version="18.0.2"
Implementation-Vendor-Id: org.keycloak
Import-Package: javax.servlet;version="[3.1,5)";resolution:=optional,org
.apache.cxf.transport.http;version="[3,4)";resolution:=optional,org.apa
che.cxf.transport.servlet;version="[3,4)";resolution:=optional,org.ecli
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ogging;version="[3.4,4)";resolution:=optional,org.keycloak.adapters;ver
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onal,org.osgi.service.http;version="[1.2,2)";resolution:=optional,org.o
sgi.util.tracker;version="[1.4,2)";resolution:=optional
Tool: Bnd-1.50.0

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* /keycloak-osgi-adapter-18-0-2-jar/META-INF/MANIFEST.MF
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/keycloak-osgi-adapter-18-0-2-jar/org/keycloak/adapters/osgi/PaxWebIntegrationService.class: binary file matches
/keycloak-osgi-adapter-18-0-2-
jar/org/keycloak/adapters/osgi/PaxWebIntegrationService$JettyConstraintHandler.class: binary file matches

Found in path(s):
* /bin/grep

1.324 apache-karaf-main 4.4.4

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1.326 apache-karaf-specs-java-xml 4.4.4

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1.327 metrics-jvm 4.2.20

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 17

Bundle-Description: A set of classes which allow you to monitor critic
al 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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.2.20"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;r
esolution:=optional,com.codahale.metrics;version="[4.2,5)",javax.mana
gement
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jvm-4-2-20-jar/META-INF/MANIFEST.MF

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Version 1.0

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1.339 apache-karaf-shell-console 4.4.4

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1.341 apache-karaf-webconsole-gogo 4.4.4

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1.342 apache-karaf-jaas-blueprint-jasypt 4.4.4

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1.343 metrics-health-checks 4.2.20

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.health
Build-Jdk-Spec: 17
Bundle-Description: An addition to Metrics which provides the ability
to run application-specific health checks, allowing you to che
ck your application's heath 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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metric
s";version="4.2.20",com.codahale.metrics.health.annotation;version="4
.2.20",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.he
alth,com.codahale.metrics.jvm";version="4.2.20"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.2.20
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.h
ealth.annotation,com.codahale.metrics.jvm;version="[4.2,5)";resolutio
n:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-healthchecks-4-2-20-jar/META-INF/MANIFEST.MF

1.344 org.apache.karaf.shell.groovy 4.4.4

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1.345 keycloak-undertow-adapter 18.0.2

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Undertow Integration
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Undertow Integration
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-undertow-adapter
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
undertow-adapter
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-under
tow-adapter/
Bnd-LastModified: 1656070202676
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak Undertow Integration
Bundle-SymbolicName: org.keycloak.keycloak-undertow-adapter

Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.undertow;uses:="org.keycloak,io.un
dertow.security.api,io.undertow.server,io.undertow.util,org.keycloak.ad
apters.spi,org.keycloak.adapters,org.keycloak.enums,io.undertow.server.
session,io.undertow.security.idm,javax.servlet,io.undertow.servlet.api,
io.undertow.server.handlers.form,io.undertow.servlet.util,io.undertow.s
ervlet,org.keycloak.constants,org.jboss.logging,io.undertow.servlet.han
dlers,javax.servlet.http";version="18.0.2"
Implementation-Vendor-Id: org.keycloak
Import-Package: io.undertow.security.api;version="[1.4,3)",io.undertow.s
ecurity.idm;version="[1.4,3)",io.undertow.server;version="[1.4,3)",io.u
ndertow.server.handlers.form;version="[1.4,3)",io.undertow.server.sessi
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servlet.api;version="[1.4,3)",io.undertow.servlet.handlers;version="[1.
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.servlet.http;version="[3.1,5)";resolution:=optional,org.jboss.logging;
version="[3.4,4)";resolution:=optional,org.keycloak;version="[18.0,19)"
;resolution:=optional,org.keycloak.adapters;version="[18.0,19)";resolut
ion:=optional,org.keycloak.adapters.spi;version="[18.0,19)";resolution:
=optional,org.keycloak.constants;version="[18.0,19)";resolution:=option
al,org.keycloak.enums;version="[18.0,19)";resolution:=optional
Tool: Bnd-1.50.0

Found in path(s):
* /keycloak-undertow-adapter-18-0-2-jar/META-INF/MANIFEST.MF
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#

org.keycloak.adapters.undertow.KeycloakServletExtension

Found in path(s):
* /keycloak-undertow-adapter-18-0-2-jar/META-INF/services/io.undertow.servlet.ServletExtension
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Found in path(s):
* /keycloak-undertow-adapter-18-0-2-jar/META-INF/maven/org.keycloak/keycloak-undertow-adapter/pom.xml
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/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/KeycloakServletExtension.class: binary file matches
/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/ServletKeycloakAuthMech.class: binary file matches
/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/UndertowAuthenticationMechanism.class: binary file matches

Found in path(s):
* /bin/grep

1.346 httpcore-osgi 4.4.16

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1.347 apache-karaf-obr-core 4.4.4

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1.348 keycloak-pax-web-undertow 18.0.2

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1.349 apache-karaf-wrapper-core 4.4.4

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1.358 apache-karaf-webconsole-http 4.4.4

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1.359 apache-karaf-management-server 4.4.4

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1.360 metrics 4.2.20

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17

Bundle-Description: Metrics is a Java library which gives you unparall
eled insight into what your code does in production. Metrics p
rovides a powerful toolkit of ways to measure the behavior of critica
l components in your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Core
Bundle-SymbolicName: io.dropwizard.metrics.core
Bundle-Version: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.20
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-4-2-20-zip/metrics-core-4-2-20-jar/META-INF/MANIFEST.MF

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1.374 metrics-graphite 4.2.20

1.374.1 Available under license :

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/metrics-graphite-4-2-20-zip/amqp-client-5-18-0-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches
/metrics-graphite-4-2-20-zip/amqp-client-5-18-0-jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

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* /bin/grep
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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17
Bundle-Description: Metrics is a Java library which gives you unparall
eled insight into what your code does in production. Metrics p
rovides a powerful toolkit of ways to measure the behavior of critica
l components in your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Core
Bundle-SymbolicName: io.dropwizard.metrics.core
Bundle-Version: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.20
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-graphite-4-2-20-zip/metrics-core-4-2-20-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 17
Bundle-Description: A reporter for Metrics which announces measurement
s to a Graphite server.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Graphite Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.graphite
Bundle-Version: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.graphite;uses:="com.codahale.metr
ics,com.rabbitmq.client,javax.net";version="4.2.20"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",com.rabbitmq.client;version="[5.18,6)",javax.net
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-graphite-4-2-20-zip/metrics-graphite-4-2-20-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/en-US/M
PL/2.0/
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.18.0
Bnd-LastModified: 1687163658344
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: VMware, Inc. or its affiliates.
Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=opt
ional,com.fasterxml.jackson.core;version="[2.15,3)";resolution:=optio
nal,com.fasterxml.jackson.databind;version="[2.15,3)";resolution:=opt
ional,com.fasterxml.jackson.databind.node;version="[2.15,3)";resoluti
 on:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitm
q.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tool
s.json,com.rabbitmq.utility,io.micrometer.core.instrument;version="[1
.11,2)";resolution:=optional,io.opentelemetry.api;resolution:=optiona
l,io.opentelemetry.api.common;resolution:=optional,io.opentelemetry.a
pi.metrics;resolution:=optional,javax.naming,javax.naming.directory,j
avax.net,javax.net.ssl,javax.security.auth.callback,javax.security.au
th.x500,javax.security.sasl,org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
m.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabb
itmq.utility,javax.net,javax.net.ssl";version="5.18.0",com.rabbitmq.c
lient.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbit
 mq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instr
ument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,java
x.net.ssl";version="5.18.0",com.rabbitmq.client.impl.nio;uses:="com.r
abbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.18.
0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.r
abbitmq.client.impl";version="5.18.0",com.rabbitmq.tools;version="5.1
8.0",com.rabbitmq.tools.json;version="5.18.0",com.rabbitmq.tools.json

rpc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,
com.rabbitmq.client";version="5.18.0",com.rabbitmq.utility;version="5
.18.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.18.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /metrics-graphite-4-2-20-zip/amqp-client-5-18-0-jar/META-INF/MANIFEST.MF

1.375 libmd 1.1.0-r0

1.375.1 Available under license :

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* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/writer/openssh/OpenSSHKeyEncryptionContext.java
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/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/channel/ChannelSessionFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/signature/SignatureSkECDSA.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/ConnectionService.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/buffer/keys/DSSBufferPublicKeyParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/local/ChannelAgentForwarding.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/nio2/Nio2Service.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/closeable/Builder.java

* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/keys/ClientIdentityLoaderHolder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/pubkey/SessionKeyPairIterator.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/ReadPendingException.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/future/SshFutureListener.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/signature/SignatureFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/x11/X11ForwardingExceptionMarker.java
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* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/util/security/eddsa/OpenSSHEd25519PrivateKeyEntryDecoder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/WindowClosedException.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/impl/SkED25519PublicKeyEntryDecoder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/channel/AbstractServerChannel.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/unix/ChannelAgentForwardingFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/keyverifier/DefaultKnownHostsServerKeyVerifier.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelPipedInputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/CompressionDelayedZlib.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/common/AgentDelegate.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/channel/ChannelDirectTcpip.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/session/ServerUserAuthServiceFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/KeyPairResourceLoader.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/AbstractUserAuth.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/KeyUtils.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/AESPrivateKeyObfuscator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHParserContext.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/MontgomeryCurve.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/output/OutputStreamWithChannel.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/buffer/keys/ED25519BufferPublicKeyParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/session/ServerProxyAcceptorHolder.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/threads/ExecutorServiceCarrier.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/file/root/RootedSecureDirectoryStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/common/DefaultAgentForwardSupport.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/DefaultIoServiceFactoryFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/keyverifier/ModifiedServerKeyAcceptor.java

* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/pubkey/PublicKeyAuthenticationReporter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/digest/package-info.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/FilePasswordProviderManager.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/IoServiceEventListener.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/core/CoreModuleProperties.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/ServerBuilder.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/CompressionZlib.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/PtyChannelConfigurationHolder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/nio2/Nio2CompletionHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/ServerAuthenticationManager.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/PtyChannelConfiguration.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/session/helpers/AbstractConnectionServiceRequestHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/future/DefaultCancelFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/FactoryManager.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/BuiltinCompressions.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/SessionHolder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/dh/AbstractDHKeyExchange.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/SshServer.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/SignalListener.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/security/SecurityProviderChoice.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/PasswordHolder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/shell/ProcessShellFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/FilePasswordProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/RawKdfOptions.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/future/ConnectFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/AttributeStore.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/CompressionNone.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/keyboard/PromptEntry.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/cipher/package-info.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/CommonModuleProperties.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/Service.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/session/ServerSession.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/IoWriteFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/Signal.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/PendingWriteFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/AbstractResourceKeyPairProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelAsyncOutputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/LocalWindow.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/threads/NoCloseExecutor.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/closeable/ParallelCloseable.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/OptionalFeature.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/nio2/Nio2Session.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/pubkey/RejectAllPublickeyAuthenticator.java

* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/UserAuthInstance.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/AuthorizedKeyEntry.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/KeyIdentityProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/channel/PipeDataReceiver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/keyverifier/RejectAllServerKeyVerifier.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/pem/PKCS8PrivateKeyInfo.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/der/ASN1Type.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/shell/AggregateShellFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/ObjectBuilder.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/channel/AbstractClientChannel.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/session/AbstractClientSession.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/output/SecureByteArrayOutputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/output/NoCloseWriter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/MutablePassword.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/global/NoMoreSessionsHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/DefaultIoConnectFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/local/ProxyAgentFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/KeySizeIndicator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/password/PasswordAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/pubkey/KeySetPublickeyAuthenticator.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/signature/SignatureFactoriesManager.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/extension/parser/ServerSignatureAlgorithms.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/buffer/keys/ECBufferPublicKeyParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/NamedResourceListParseResult.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/pubkey/CachingPublicKeyAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/BuiltinFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/random/SingletonRandomFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/hosts/HostPatternsHolder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/command/CommandDirectErrorStreamAware.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/CompressionFactory.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/Factory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/global/TcpipForwardHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/forward/DefaultForwarder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/config/keys/AuthorizedKeysAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/input/InputStreamWithChannel.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/global/OpenSshHostKeysHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/hostbased/HostKeyIdentityProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/unix/AgentServer.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/AbstractKexFactoryManager.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/extension/parser/Elevation.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/BuiltinUserAuthFactories.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/channel/exit/AbstractChannelExitRequestHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/ReflectionUtils.java

* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/kex/AbstractDHServerKeyExchange.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/keyboard/UserInteraction.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/shell/TtyFilterOutputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelAsyncInputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/HostKeyCertificateProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/file/nonefs/NoneFileSystem.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/pem/ECDSAPEMResourceKeyPairParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/command/AbstractCommandSupport.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/ECDH.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/keyboard/UserAuthKeyboardInteractive.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/net/NetworkConnector.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/writer/openssh/OpenSSHKeyPairResourceWriter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/ClassLoadableResourceKeyPairProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/PublicKeyEntryDataResolver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/SyslogFacilityValue.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/x11/X11ForwardSupport.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/hosts/HostConfigEntry.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/session/SessionFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/input/NoCloseReader.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/local/AgentServerProxy.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/extension/DefaultServerKexExtensionHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/OsUtils.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/PrivateKeyEntryResolver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/hostbased/HostBasedAuthenticationReporter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/security/Decryptor.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/DirectoryScanner.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/future/DefaultCloseFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelIdentifier.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/exception/SshChannelException.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/file/util/BaseFileSystem.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/DHFactory.java
*
/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/command/Command.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/closeable/AbstractCloseable.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/common/AbstractAgentProxy.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/password/PasswordAuthenticationReporter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/mac/MacFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/u2f/SkEcdsaPublicKey.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHKeyPairResourceParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/AbstractSessionFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/forward/StaticDecisionForwardingFilter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/FactoriesListParseResult.java
*

/sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/pem/AbstractPEMResourceKeyPairParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/WritePendingException.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/buffer/BufferUtils.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/config/keys/ServerIdentity.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/common/AgentForwardSupport.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/hosts/ConfigFileHostEntryResolver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/forward/DirectTcpipFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/keys/ClientIdentityFileWatcher.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/password/UserAuthPassword.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelHolder.java
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*/
/**
* Special exception returned by {@link AbstractSession#getSession(org.apache.sshd.common.io.IoSession,
boolean)} to
* indicate
that there is no currently attached SSH session
*
* @author Apache MINA SSHD Project
*/

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/MissingAttachedSessionException.java
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*/
// Throw a special exception - SSHD-777

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/AbstractConnectionService.java
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*/
/**
* Provides a way to listen and handle the {@code SSH_MSG_IGNORE} and {@code SSH_MSG_DEBUG} messages that are received
* by
 a session, as well as proprietary and/or extension messages and behavior.
*
* @author Apache MINA SSHD Project
*/
/**
    * Invoked if the user configured usage of a proprietary heartbeat mechanism. <B>Note:</B> by default throws

```
    * {@code UnsupportedOperationException} so users who configure a proprietary heartbeat mechanism option must
    * provide an implementation for this method.
    *
    * @param  service   The {@link ConnectionService} through which the heartbeat is being executed.
    * @return           {@code true} whether heartbeat actually sent - <B>Note:</B> used mainly for debugging purposes.
    * @throws Exception If failed to send the heartbeat - <B>Note:</B> causes associated session termination.
    */
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/ReservedSessionMessagesHandler.java
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* under the License.
*/
/**
* Special exception thrown by
* {@link AbstractSession#attachSession(org.apache.sshd.common.io.IoSession, AbstractSession)}
 in order to indicate an
* already attached I/O session
*
* @author <a href="mailto:dev@mina.apache.org">Apache MINA SSHD Project</a>
*/
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/MultipleAttachedSessionException.java
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*/
/**
   * According to <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC 4252 - section 8</A>:
   *
   * <PRE>

   *      Both the server and the client should check whether the underlying
   *      transport layer provides confidentiality (i.e., if encryption is
   *      being used).  If no confidentiality is provided ("none" cipher),
   *      password authentication SHOULD be disabled.  If there is no
   *      confidentiality or no MAC, password change SHOULD be disabled.
   * </PRE>
   *
   * @param  session The {@link SessionContext} being used for authentication
   * @return         {@code true} if the context is not {@code null} and the ciphers have been established to anything
   *                 other than &amp;quot;none&amp;quot;.
   * @see            CommonModuleProperties#ALLOW_INSECURE_AUTH
   * @see            SessionContext#isSecureSessionTransport(SessionContext)
   */
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/UserAuthMethodFactory.java
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*/
/**
* Poly1305 one-time message authentication code. This implementation is derived from the public domain C library
* <a href="https://github.com/floodyberry/poly1305-donna">poly1305-donna</a>.
 *
* @see <a href="http://cr.yp.to/mac/poly1305-20050329.pdf">The Poly1305-AES message-authentication
code</a>
*/
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/mac/Poly1305Mac.java
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* /sshd-osgi-2-10-0-sources-jar/META-INF/maven/org.apache.sshd/sshd-osgi/pom.xml
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*/
/**
* A special exception that can be thrown by the {@link PasswordAuthenticator} to indicate that the password requires
* changing
 or is not string enough
*
* @see   <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC-4252 section 8 -
*   SSH_MSG_USERAUTH_PASSWD_CHANGEREQ</A>
* @author Apache MINA SSHD Project
*/

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/password/PasswordChangeRequiredException.java
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Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/BCrypt.java

1.377 stax 4.2.2

1.377.1 Available under license :

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1.378 logback-core 2.2.3

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Found in path(s):
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/PaxLoggerImpl.java
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/Activator.java
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```
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Found in path(s):
* /pax-logging-logback-2-2-3-sources-jar/ch/qos/logback/classic/spi/PackagingDataCalculator.java
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* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/Slf4jLogbackMDCAdapter.java
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* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/PaxLoggingServiceImpl.java
* /pax-logging-logback-2-2-3-sources-
jar/org/ops4j/pax/logging/logback/internal/bridges/PaxAppenderDelegate.java
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/spi/PaxLevelImpl.java
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Found in path(s):
* /pax-logging-logback-2-2-3-sources-
jar/org/ops4j/pax/logging/logback/internal/spi/PaxLocationInfoForLogback.java
* /pax-logging-logback-2-2-3-sources-
jar/org/ops4j/pax/logging/logback/internal/spi/PaxLoggingEventForLogback.java
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* /pax-logging-logback-2-2-3-sources-jar/META-INF/maven/org.ops4j.pax.logging/pax-logging-logback/pom.xml
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Found in path(s):
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/LoggingManagedService.java

1.379 snappy-java 1.1.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1695799258578
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression libr

ary
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
6_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
ve/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xer
ial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x
86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macos
x;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dyl
ib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch6
4/libsnappyjava.dylib;osname=macosx;processor=aarch64,org/xerial/snap
py/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x86-64
,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;
processor=x64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;
osname=linux;processor=amd64,org/xerial/snappy/native/Linux/x86/libsn
appyjava.so;osname=linux;processor=x86,org/xerial/snappy/native/Linux
/aarch64/libsnappyjava.so;osname=linux;processor=aarch64,org/xerial/s
nappy/native/Linux/riscv64/libsnappyjava.so;osname=linux;processor=ri
scv64,org/xerial/snappy/native/Linux/arm/libsnappyjava.so;osname=linu
x;processor=arm,org/xerial/snappy/native/Linux/armv7/libsnappyjava.so
;osname=linux;processor=arm_le,org/xerial/snappy/native/Linux/ppc64/l
ibsnappyjava.so;osname=linux;processor=ppc64le,org/xerial/snappy/nati
ve/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x,org/xeri
al/snappy/native/AIX/ppc/libsnappyjava.a;osname=aix;processor=ppc,org
/xerial/snappy/native/AIX/ppc64/libsnappyjava.a;osname=aix;processor=
ppc64,org/xerial/snappy/native/SunOS/x86/libsnappyjava.so;osname=suno
s;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.s
o;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/
libsnappyjava.so;osname=sunos;processor=sparc
Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna

ppy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch
64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.nativ
e.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.na
tive.Linux.armv7,org.xerial.snappy.native.Linux.ppc,org.xerial.snappy
.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial
.snappy.native.Linux.riscv64,org.xerial.snappy.native.Linux.s390x,org
.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64
,org.xerial.snappy.native.Mac.aarch64,org.xerial.snappy.native.Mac.x8
6,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xe
rial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org
.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.a
arch64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.
Windows.x86_64
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /snappy-java-1-1-10-5-1-jar/META-INF/MANIFEST.MF

1.380 bcpkix-fips 1.0.7

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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /bcpkix-fips-1-0-7-sources-2-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.381 netty-transport-native-epoll 4.1.100.Final

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* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/netty_epoll_native.c

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```

Found in path(s):
* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/netty_epoll_linuxsocket.h
* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/netty_epoll_linuxsocket.c

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* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/netty_epoll_vmsocket.h
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Found in path(s):
* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

1.382 manual 4.4.4

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1.385 scala-reflect 2.13.12

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1.389 jline 3.22.0

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* /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/ConnectionData.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/PortListener.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/ConnectionEvent.java
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* /jline-3-22-0-sources-8-jar/org/jline/reader/UserInterruptException.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/DiffHelper.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/AttributedString.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/OSUtils.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Binding.java
*
 /jline-3-22-0-sources-8-jar/org/jline/terminal/MouseEvent.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/MouseSupport.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Widget.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/spi/Pty.java

* /jline-3-22-0-sources-8-jar/org/jline/utils/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/ClosedException.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Reference.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/ExecPty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/NullCompleter.java
*
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* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Expander.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/InputStreamReader.java
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* /jline-3-22-0-sources-8-jar/org/jline/utils/WCWidth.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/UndoTree.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/CursorSupport.java
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* /jline-3-22-0-sources-8-jar/org/jline/console/impl/SystemHighlighter.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Source.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Commands.java
* /jline-3-22-0-sources-8-jar/org/jline/console/impl/SystemRegistryImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Less.java
* /jline-3-22-0-sources-8-jar/org/jline/console/impl/Builtins.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/LineReaderImpl.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
micro_line_size, mls, Yg

number_of_pins, npins, Yh
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, el1, cb
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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
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display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,

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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
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enter_draft_quality, sdrfq, ZG
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enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
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enter_reverse_mode, rev, mr
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enter_shadow_mode, sshm, ZM
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enter_subscript_mode, ssubm, ZN
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enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
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exit_attribute_mode, sgr0, me
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ZU
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exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
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flash_hook, hook, fh
flash_screen, flash, vb
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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
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insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
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key_beg, kbeg, @1
key_btab, kcbt, kB
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key_enter, kent, @8
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key_eos,
ked, kS
key_exit, kext, @9
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Fm
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key_f6, kf6, k6

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key_f8, kf8, k8
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key_find, kfnd, @0
key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
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key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6
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key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
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key_restart, krst, &4
key_resume, kres, &5
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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
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
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
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label_off, rmln, LF
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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
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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

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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
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these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
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up_half_line, hu, hu
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user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
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xon_character, xonc, XN
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bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
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code_set_init, csin, ci
color_names, colornm, Yw
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device_type, devt, dv
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smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3

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pc_term_options, pctrm, S6
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set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
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set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
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

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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
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lightseagreen
deepskyblue2
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springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
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purple4a

purple3
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orange4
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* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/spi/TerminalProvider.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/Diag.java
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 /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/ConnectionListener.java
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* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Display.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CommandMethods.java
* /jline-3-22-0-sources-8-jar/org/jline/console/ScriptEngine.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/CompletionMatcher.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CmdDesc.java
*
 /jline-3-22-0-sources-8-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/widget/Widgets.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CmdLine.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Log.java
* /jline-3-22-0-sources-8-jar/org/jline/widget/AutosuggestionWidgets.java
* /jline-3-22-0-sources-8-jar/org/jline/console/impl/JlineCommandRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CommandRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/EndOfFileException.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
*
 /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Signals.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/widget/AutopairWidgets.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/LineReaderBuilder.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/DefaultParser.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/ColorPalette.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CommandInput.java
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* /jline-3-22-0-sources-8-jar/org/jline/style/StyleExpression.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlocking.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Curses.java
* /jline-3-22-0-sources-8-jar/org/jline/keymap/BindingReader.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/ExternalTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleSource.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/StyleResolver.java
*
 /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Completer.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/MaskingCallback.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingReader.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/CompletingParsedLine.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/InputRC.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Colors.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/Size.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleFactory.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/FileNameCompleter.java
*
 /jline-3-22-0-sources-8-jar/org/jline/utils/Timeout.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/ParsedLine.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/Terminal.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/History.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/style/Styler.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/NfaMatcher.java
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* /jline-3-22-0-sources-8-jar/org/jline/style/StyleResolver.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingPumpReader.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/BufferImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/style/InterpolationHelper.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/SimpleMaskingCallback.java
*
 /jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/Ssh.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/WriterOutputStream.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyledWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/Telnet.java
* /jline-3-22-0-sources-8-jar/org/jline/style/MemoryStyleSource.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/PumpReader.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Buffer.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleColor.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/ShellCommand.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleBundle.java
*
 /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
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class = org.jline.terminal.impl.jna.JnaTerminalProvider

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* /jline-3-22-0-sources-8-jar/org/jline/builtins/Completers.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Nano.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-3-22-0-sources-8-jar/org/jline/widget/TailTipWidgets.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/history/DefaultHistory.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/PrintAboveWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/TTop.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Styles.java
*
 /jline-3-22-0-sources-8-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/AttributedStyle.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/LineReader.java
* /jline-3-22-0-sources-8-jar/org/jline/console/ConsoleEngine.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Parser.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/TerminalBuilder.java
* /jline-3-22-0-sources-8-jar/org/jline/console/SystemRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/console/ArgDesc.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/AttributedCharSequence.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Highlighter.java
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* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-reader/pom.xml
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* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
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* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Editor.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Candidate.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/ConfigurationPath.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/ArgumentCompleter.java

* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/InfoCmp.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Status.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/StringsCompleter.java

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1.392 gcompat 1.1.0-r4

1.392.1 Available under license :

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1.393 protobuf-java 3.25.2

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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/MessageInfo.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/OneofInfo.java
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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/Android.java
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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/CheckReturnValue.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/AbstractMessage.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/ByteString.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/ExtensionLite.java
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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/Java8Compatibility.java

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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/UnknownFieldSchema.java
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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/MessageSchema.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/ProtoSyntax.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/MapFieldSchemas.java
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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/Descriptors.java
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* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/Utf8.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/Extension.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/IntArrayList.java
*
/protobuf-java-3-25-2-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java
* /protobuf-java-3-25-2-sources-jar/com/google/protobuf/GeneratedMessage.java

1.394 zstd-jni 1.5.2-1

1.394.1 Available under license :

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

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 la
nguages.
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;descripti
on=BSD 2-Clause License
Bundle-ManifestVersion: 2
Bundle-Name: zstd-jni
Bundle-NativeCode: darwin/x86_64/libzstd-jni-1.5.2-1.dylib;osname=MacO
S;osname=MacOSX;processor=x86_64, darwin/aarch64/libzstd-jni-1.5.2-1.
dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/lib
zstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libz
std-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libzs
td-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd
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 linux/i386/libzstd-jni-1.5.2-1.
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sname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osna
me=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=L
inux;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;process
or=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.lub
en.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.aar
ch64,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):
* /zstd-jni-1-5-2-1-5-jar/META-INF/MANIFEST.MF

1.395 bcutil-framework-ext 13.0.7

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1.396 bcprov-framework-ext 13.0.7

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1.397 value 2.10.0

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1.398 apache-aries-spifly-dynamic-bundle 1.3.6

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1.400 bcpkix-framework-ext 13.0.7

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1.404 asm 3.3.1

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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/util/ASMifiable.java

1.405 protobuf-java 3.25.3

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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/AbstractProtobufList.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/BinaryReader.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/DynamicMessage.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Android.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MessageSchema.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Service.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/CodedOutputStream.java

* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/LazyStringList.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapFieldReflectionAccessor.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapFieldSchemaLite.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java
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 /protobuf-java-3-25-3-sources-jar/com/google/protobuf/InlineMe.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapFieldSchemas.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/CodedOutputStreamWriter.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MutabilityOracle.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapFieldSchema.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/StructuralMessageInfo.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/BufferAllocator.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/LongArrayList.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapFieldSchemaFull.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/BlockingRpcChannel.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/CodedInputStreamReader.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/UnknownFieldSetLite.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapField.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/CodedInputStream.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Reader.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/AbstractParser.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/RepeatedFieldBuilder.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/SchemaUtil.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapFieldLite.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/JavaType.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/DescriptorMessageInfoFactory.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/TypeRegistry.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/TextFormatParseInfoTree.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/AbstractMessageLite.java
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/protobuf-java-3-25-3-sources-jar/com/google/protobuf/NioByteString.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/RawMessageInfo.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ManifestSchemaFactory.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Internal.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MapFieldBuilder.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MessageSetSchema.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ArrayDecoders.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ExtensionLite.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ExtensionSchemaFull.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/UnsafeUtil.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/SingleFieldBuilderV3.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/NewInstanceSchemaLite.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/InvalidProtocolBufferException.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Parser.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Protobuf.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/RepeatedFieldBuilderV3.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ProtoSyntax.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/TextFormatEscaper.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/SchemaFactory.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/UnsafeByteOperations.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MessageLite.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/MessageOrBuilder.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/FloatArrayList.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ByteString.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ExperimentalApi.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ExtensionSchema.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ServiceException.java
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1.406 pcre 10.43-r0

1.406.1 Available under license :

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Email local part: Philip.Hazel
Email domain: gmail.com

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1.407 libunistring 1.2-r0

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1.408 perfmark-api 0.27.0

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1.409 giflib 5.2.2

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1.410 classmate 1.7.0

1.410.1 Available under license :

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

Other developers who have contributed code are:

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1.411 commons-compress 1.26.1

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1.417 angus-activation 2.0.2

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man/fparseln.3bsd
man/tree.3bsd
src/fparseln.c
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man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
src/readpassphrase.c
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1.427 gettext 0.22.5-r0

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

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1.429 protobuf-java-util 3.25.2

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Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
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Export-Package: com.google.protobuf.util;version="3.25.2";uses:="com.goo
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Import-Package: com.google.common.base;version="[32.0,33)",com.google.co
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f,javax.annotation;version="[3.0,4)",sun.misc;resolution:=optional

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
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* /protobuf-java-util-3-25-2-jar/META-INF/MANIFEST.MF

1.430 platformdirs 2.6.2

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1.433 supervisor 4.2.5

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1.434 brotli 1.1.0-r2

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```
@file:JvmName("SettingsSecureProxy")

package me.xx2bab.caliper.permission

import android.os.Build
import me.xx2bab.caliper.anno.ASMOpcodes
import me.xx2bab.caliper.anno.CaliperMethodProxy

object SettingsSecureProxy {

  const val abc = "getString"

  @CaliperMethodProxy(
     className = "android/provider/Settings\$Secure",
     methodName = abc,// "getString",
     opcode = ASMOpcodes.INVOKESTATIC
  )
  @JvmStatic
  fun getString(): String {
     return Build.BOARD.toString()
  }

}
```

```
@file:JvmName("AndroidOSBuildProxy")

package me.xx2bab.caliper.permission

import me.xx2bab.caliper.anno.ASMOpcodes
import me.xx2bab.caliper.anno.CaliperFieldProxy
import me.xx2bab.caliper.anno.CaliperMethodProxy

object AndroidOSBuildProxy {

  @CaliperMethodProxy(
     className = "android/os/Build",
     methodName = "getSerial",
     opcode = ASMOpcodes.INVOKESTATIC
  )
  @JvmStatic
  fun getSerial(): String {
     return ""
  }
  @CaliperFieldProxy(
     className = "android/os/Build",
     fieldName = "SERIAL",
     opcode = ASMOpcodes.GETSTATIC
  )
  @JvmStatic
  fun getSerialField(): String {
     return ""
  }

}
```

1.436 slf4j-impl 2.23.1

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1.439 activation-api 1.2.2

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1.440 slf4j 2.0.13

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* /slf4j-2-0-13-jar/META-INF/maven/org.openidentityplatform.commons.i18n-framework/slf4j/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1649403223965
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: This module provides an interface for efficiently wr
iting localized messages out to a SLF4J Logger
Bundle-DocURL: https://github.com/OpenIdentityPlatform
Bundle-License: http://www.opensource.org/licenses/CDDL-1.0
Bundle-ManifestVersion: 2
Bundle-Name: org.openidentityplatform.commons.i18n-framework.slf4j
Bundle-SymbolicName: org.openidentityplatform.commons.i18n-framework.slf
4j

Bundle-Vendor: Open Identity Platform Community
Bundle-Version: 2.0.13
Created-By: Apache Maven Bundle Plugin
Export-Package: org.forgerock.i18n.slf4j;uses:="org.slf4j,org.forgerock.
i18n";version="2.0.13"
Import-Package: org.forgerock.i18n;version="[2.0,3)",org.slf4j;version="
[1.7,2)"
Tool: Bnd-1.50.0

Found in path(s):
* /slf4j-2-0-13-jar/META-INF/MANIFEST.MF

1.441 jaraco-functools 4.0.1

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1.448 isorelax 20090621

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* /failureaccess-1-0-2-sources-1-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
* /failureaccess-1-0-2-sources-1-jar/com/google/common/util/concurrent/internal/InternalFutures.java

1.452 springdoc-openapi-starter-common 2.5.0

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@enumerate a
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@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

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

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
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 of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
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it.

Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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the Library into a program that is not a library.

@item
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derivative of it, under Section 2) in object code or executable form

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

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

@item
A program that contains no derivative of any portion of the
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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

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

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

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

@item
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@item
Verify that the user has already received a copy of these
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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,
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies the
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@page
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that you changed the files and the date of any change.

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special exception, the source code distributed need not include
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form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
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@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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 and a brief idea of what it does.}
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@end smallexample

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:

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{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.
@end smallexample

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the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

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

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice
@end example

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Version 2.1, February 1999

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Version 3, 29 June 2007

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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/GuardedBy.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/ThreadSafe.java

1.462 gson 2.11.0

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* /gson-2-11-0-sources-1-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonReader.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonToken.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonWriter.java

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* /gson-2-11-0-sources-1-jar/com/google/gson/ToNumberPolicy.java
* /gson-2-11-0-sources-1-jar/com/google/gson/ToNumberStrategy.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/package-info.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
*
 /gson-2-11-0-sources-1-jar/com/google/gson/TypeAdapterFactory.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /gson-2-11-0-sources-1-jar/com/google/gson/TypeAdapter.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/TypeAdapters.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/ReflectionAccessFilter.java
* /gson-2-11-0-sources-1-jar/com/google/gson/FormattingStyle.java

* /gson-2-11-0-sources-1-jar/com/google/gson/internal/ReflectionAccessFilterHelper.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/SerializationDelegatingTypeAdapter.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/internal/JavaVersion.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/internal/sql/SqlTypesSupport.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/NumberTypeAdapter.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/internal/NonNullElementWrapperList.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/internal/package-info.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java
*
/gson-2-11-0-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/JsonStreamParser.java
* /gson-2-11-0-sources-1-jar/com/google/gson/FieldAttributes.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/annotations/Until.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonDeserializer.java
* /gson-2-11-0-sources-1-jar/com/google/gson/annotations/Since.java
*
 /gson-2-11-0-sources-1-jar/com/google/gson/JsonDeserializationContext.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonParseException.java
* /gson-2-11-0-sources-1-jar/com/google/gson/annotations/Expose.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/$Gson$Types.java
* /gson-2-11-0-sources-1-jar/com/google/gson/reflect/package-info.java
* /gson-2-11-0-sources-1-jar/com/google/gson/Gson.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonObject.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonSerializationContext.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/Excluder.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonPrimitive.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonNull.java
* /gson-2-11-0-sources-1-jar/com/google/gson/FieldNamingPolicy.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonElement.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonSerializer.java
* /gson-2-11-0-sources-1-jar/com/google/gson/annotations/SerializedName.java
*
 /gson-2-11-0-sources-1-jar/com/google/gson/package-info.java
* /gson-2-11-0-sources-1-jar/com/google/gson/InstanceCreator.java
* /gson-2-11-0-sources-1-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-11-0-sources-1-jar/com/google/gson/internal/ObjectConstructor.java
* /gson-2-11-0-sources-1-jar/com/google/gson/JsonIOException.java
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1.463 aspect-j 1.9.22.1

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1.468 htop 3.3.0-r0

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1.469 postgre-sql 42.6.1

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1.470 msgpack 1.0.8

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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/ParseException.java
*
/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/Token.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/BMPattern.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/Op.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/Match.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/XSDatatype.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/PatternFacet.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/XmlNames.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/GYearType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/UnsignedShortType.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/ngimpl/DataTypeLibraryImpl.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/IDREFType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/GMonthType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
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/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/LanguageType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/SimpleURType.java
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1.475 asm 5.1

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

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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java

* /asm-all-5-1-sources-2-jar/org/objectweb/asm/xml/Processor.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAdapter.java
*
/asm-all-5-1-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/xml/SAXClassAdapter.java
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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
```

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

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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/GeneratorAdapter.java
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*/
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
```

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

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

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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/util/package.html
*
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
*
 /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/LabelNode.java
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/ClassReader.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/Label.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/FieldWriter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
*
 /asm-all-5-1-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
*
 /asm-all-5-1-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java

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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/Edge.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/Method.java
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/Attribute.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/ClassRemapper.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
*
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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/Context.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/Item.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/Handler.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
*
/asm-all-5-1-sources-2-jar/org/objectweb/asm/Frame.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/FieldRemapper.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java

* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
*
 /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/InsnList.java
* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/IincInsnNode.java
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*/
```
/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
```

```
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *


   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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* /asm-all-5-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

1.476 commons-lang3 3.13.0

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1.477 reflectasm 1.11.9

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*
*/

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1.478 swagger 2.2.22

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1.479 swagger-ui 5.17.14

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1.483 jackson-databind 2.17.2

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1.484 jackson 2.17.2

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This project provides parsers for double, float, BigDecimal and BigInteger values.

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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
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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose

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You can report issues or suggest changes directly to `validate-pyproject`
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Will Pierce <willp@nuclei.com>
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   * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
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  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
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William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
  * Provide a type alias field ValueType
on EnumTypeWrapper
  * Match service argument names to abstract interface

1.491 jsonassert 1.5.3

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1.492 readline 8.2.13-r0

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1.493 typing-extensions 4.12.2

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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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
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It is currently developed by a community of developers.

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1.495 py3-setuptools-pyc 70.3.0-r0

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1.496 alpine-keys 2.5-r0

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1.497 xnio-api 3.8.16.Final

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* /xnio-api-3-8-16-final-sources-jar/org/xnio/ssl/JsseXnioSsl.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/ssl/XnioSsl.java

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* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/FixedLengthOverflowException.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/FixedLengthStreamSinkChannel.java
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/xnio-api-3-8-16-final-sources-jar/org/xnio/channels/NullStreamSinkChannel.java
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    * A QOP value specifying authentication plus integrity and confidentiality protection.
    */

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* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/Streams.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/XnioFileChannel.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/TranslatingSuspendableChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/Property.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/ChannelListeners.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/sasl/SaslUtils.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/BufferAllocator.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/sasl/SaslWrapper.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/WriteTimeoutException.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/BufferedChannelInputStream.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/BufferPipeOutputStream.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/SuspendableAcceptChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/ReaderInputStream.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/BufferPipeInputStream.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/ReadTimeoutException.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/WriterOutputStream.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/ByteString.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/OptionMap.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/BlockingByteChannel.java
*

/xnio-api-3-8-16-final-sources-jar/org/xnio/channels/BlockingWritableByteChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/SslChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/TranslatingResult.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/sasl/SaslStrength.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/CloseableChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/FutureResult.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/Sequence.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/AssembledConnectedSslStreamChannel.java
*
/xnio-api-3-8-16-final-sources-jar/org/xnio/ChannelPipe.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/AssembledStreamChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/ConcurrentStreamChannelAccessException.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/FixedLengthStreamSourceChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/BrokenPipeException.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/AssembledConnectedMessageChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/AssembledConnectedStreamChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/AssembledSslChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/EmptyStreamSourceChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/AssembledMessageChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/AssembledConnectedChannel.java
*
/xnio-api-3-8-16-final-sources-jar/org/xnio/DelegatingChannelListener.java

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* /xnio-api-3-8-16-final-sources-jar/org/xnio/XnioXmlParser.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/SplitStreamSinkChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/SplitStreamSourceChannel.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/CompressionType.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/ProtectedWrappedChannel.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/Pooled.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/ByteBufferSlicePool.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/LimitedOutputStream.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/LocalSocketAddress.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/http/UpgradeFailedException.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/ReadableMultipointMessageChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/ChannelInputStream.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/Configurable.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/StreamSourceChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/streams/ChannelOutputStream.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/SuspendableWriteChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/SuspendableReadChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/WritableMessageChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/AbstractConvertingIoFuture.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/IoFuture.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/Buffers.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/UnsupportedOptionException.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/Xnio.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/StreamSinkChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/WritableMultipointMessageChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/ReadableMessageChannel.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/IoUtils.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/AbstractIoFuture.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/ssl/JsseSslUtils.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/TypeOption.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/XnioWorker.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/Bits.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/SingleOption.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/TypeSequenceOption.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/NullStreamSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/SynchronizedMessageSinkConduit.java

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 /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/ConduitStreamSourceChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/DeflatingStreamSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/sasl/SaslUnwrappingConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/BufferedStreamSourceConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/FileChangeEvent.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/SynchronizedStreamSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/SynchronizedMessageSourceConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/BlockingStreamSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/http/HttpUpgradeParser.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/ConduitWritableByteChannel.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/ssl/JsseStreamConduit.java
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 /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/CloseListenerSettable.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/package-info.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/ReadListenerSettable.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/StreamConnection.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/MessageStreamSinkConduit.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/StreamSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/WriteReadyHandler.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/TerminateHandler.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/MessageSourceConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/StreamSinkChannelWrappingConduit.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/FixedLengthStreamSinkConduit.java
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 /xnio-api-3-8-16-final-sources-jar/org/xnio/management/XnioServerMXBean.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/sasl/SaslWrappingConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/FileSystemWatcher.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/SourceConduit.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/ConduitStreamSinkChannel.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/channels/WriteListenerSettable.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/AbstractConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/AbstractSynchronizedConduit.java

* /xnio-api-3-8-16-final-sources-jar/org/xnio/Connection.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/ReadReadyHandler.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/FileAccess.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/AutomaticReference.java
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* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/FramingMessageSourceConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/SinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/AbstractStreamSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/AbstractSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/FramingMessageSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/MessageSinkConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/FileChangeCallback.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/Conduits.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/management/XnioWorkerMXBean.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/Conduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/XnioIoThread.java
*
 /xnio-api-3-8-16-final-sources-jar/org/xnio/ssl/JsseSslStreamSourceConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/conduits/MessageStreamSourceConduit.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/Options.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/http/RedirectException.java
* /xnio-api-3-8-16-final-sources-jar/org/xnio/management/XnioProviderMXBean.java
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ASM: a very small and fast Java bytecode manipulation framework

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Multi-producer/multi-consumer bounded queue.

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1.500 urllib3 1.26.20

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1.501 python-certifi 2024.08.30

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1.502 slf4j 2.0.16

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1.503 log4j-api 2.24.0

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1.504 apache-log4j 2.24.0

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```
* <p>
* The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
* </p>
* <p>
* Known suffixes is a list of public domain suffixes that can't be used as wild cards for
* example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
* If *.com is in the known suffixes list will not be allowed to match.
* </p>
*
* @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
*/
```

Found in path(s):
* /bcpkix-jdk18on-1-76-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.508 checker-qual 3.39.0

1.508.1 Available under license :

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1.509 logback-core 1.5.7

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Found in path(s):
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/FileTestUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ConfigurationEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ConfigurationEventListener.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/NPEAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/RandomUtil.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/TeeOutputStream.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/MockInitialContextFactory.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/StringListAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/DelayingListAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/SimpleInvocationGate.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/MockInitialContext.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/CoreTestConstants.java
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*/

Found in path(s):
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/IncludeModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/StatusPrinter2.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/StringUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/util/PropertyModelHandlerHelper.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ContextAwarePropertyContainer.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/util/AggregationAssessor.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/ConversionRuleModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/ConversionRuleModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/ModelUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/util/VariableSubstitutionsHelper.java
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Found in path(s):
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/NewRuleAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/stax/StaxEventRecorder.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/NopStatusListener.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/FileSize.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/ConsoleAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ComponentTracker.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/FilterAttachable.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/node/ComponentNode.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/encoder/EncoderBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/FormattingNode.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ImportAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/SyslogOutputStream.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/SSLConfigurable.java

* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/DynamicConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/util/AlmostAsIsEscapeUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/stax/EndEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/read/CyclicBufferAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/ConfigurationWatchList.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/PropertySetterException.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/InfoStatus.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/boolex/JaninoEventEvaluatorBase.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/ErrorStatus.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/DefaultSocketConnector.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/TimestampAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/LifeCycleManager.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/AppenderAttachable.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ShutdownHookAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/DefaultClass.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/SaxEventInterpretationContext.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/ContextUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/SpacePadder.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/BoldMagentaCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/RollingPolicyBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/RolloverFailure.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/SSLParametersConfiguration.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/subst/Tokenizer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/OptionHelper.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/encoder/EchoEncoder.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/FixedDelay.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedRollingPolicy.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/SaxEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/CompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/Converter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/StatusManager.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ConversionRuleAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/TriggeringPolicyBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/TokenConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/filter/EvaluatorFilter.java

* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/DynamicClassLoadingException.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java
*
/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/helpers/NOPAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/AbstractSocketAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/EventPlayer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/AppenderRefAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/LoginAuthenticator.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/Compressor.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/DelayStrategy.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/FilterAttachableImpl.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/ElementSelector.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/CompressionMode.java
*
/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/SequenceNumberGeneratorAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/ServerRunner.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/html/HTMLLayoutBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/EndEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/LogbackLock.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/CharSequenceState.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/RemoteReceiverServerRunner.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java
*
/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/util/PropertySetter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/property/FileExistsPropertyDefiner.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/SSLComponent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/FileAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/ServerListener.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/helpers/CyclicBuffer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/TokenStream.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/sift/AppenderTracker.java
*
/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ScanException.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/WarnStatus.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/AppenderBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/AutoFlushingObjectWriter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/BoldRedCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/CyanCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/PreconditionValidator.java

* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/CachingDateFormatter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/Compiler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/Layout.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/Node.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/boolex/Matcher.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ContextAware.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/Context.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/Parser.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/Loader.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/property/ResourceExistsPropertyDefiner.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/ElementPath.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/SizeAndTimeBasedArchiveRemover.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/Duration.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/JNDIUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ImplicitModelData.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/QueueFactory.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/ConverterUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/BoldGreenCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/SSLConfigurableServerSocket.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/html/NOPThrowableRenderer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/layout/EchoLayout.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/DefinePropertyAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/IncompatibleClassException.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/GreenCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/SaxEventInterpreter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/JoranConstants.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/util/RestrictedEscapeUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/ClientVisitor.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/read/ListAppender.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/sift/AppenderFactory.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/StatusListener.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/PropertyDefinerBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/stax/StartEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/DefaultNestedComponentRegistry.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java

* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/sift/AppenderFactoryUsingSiftModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/CoreConstants.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/RenameUtil.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ContextAwareBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/SMTPAppenderBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/SyslogAppenderBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/CompositeNode.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/FormattingConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/StatusBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/LogbackException.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/html/CssBuilder.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java
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 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/conditional/Condition.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/recovery/ResilientOutputStreamBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/PostCompileProcessor.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/OptionTokenizer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ContextAwareImpl.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/StartEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/util/RegularEscapeUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/XMLUtil.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/SyslogConstants.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/FileFilterUtil.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/parser/Token.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/ANSIConstants.java

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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/Action.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ParamAction.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/color/BoldYellowCompositeConverter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/PatternLayoutEncoderBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/FileNamePattern.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/SystemInfo.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/status/StatusListenerAsList.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/event/stax/BodyEvent.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/Client.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/subst/Parser.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/StatusListenerAction.java
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/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/encoder/Encoder.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/helpers/Transform.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/BasicStatusManager.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/filter/Filter.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/TriggeringPolicy.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/StringCollectionUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/RollingPolicy.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/spi/ActionException.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/PreSerializationTransformer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/sift/Discriminator.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/boolex/EventEvaluator.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/RemoteReceiverClient.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ssl/SSLContextFactoryBean.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/hook/ShutdownHook.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/pattern/util/AsIsEscapeUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/ObjectWriter.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/PropertyContainer.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/util/DefaultInvocationGate.java
*

/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/SocketConnector.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/IncludeAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/net/server/ServerSocketListener.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/ModelClassToModelHandlerLinkerBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/SerializeModelAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/XTeeOutputStream.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/encoder/JsonEscapeUtil.java
*
/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/testUtil/DummyEncoder.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/SerializeModelModelHandler.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/GenericXMLConfigurator.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ImplicitModelDataForComplexProperty.java
* /logback-core-1-5-7-sources-2-
jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java
*
/logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/RollingFileAppender.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/sanity/AppenderWithinAppenderSanityChecker.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/PhaseIndicator.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/DefineModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/conditional/ThenAction.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/util/ParentTag_Tag_Class_Tuple.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/ShutdownHookModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/conditional/IfModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/conditional/ThenModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/util/TagUtil.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/NamedModel.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/conditional/IfAction.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/ComponentModel.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/sanity/SanityChecker.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/ModelHandlerFactoryMethod.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/ModelInterpretationContext.java

* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/joran/action/ImplicitModelAction.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/ImplicitModel.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/ProcessingPhase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/spi/ErrorCodes.java
*
 /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/StatusListenerModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/conditional/ElseModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/InsertFromJNDIModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/Model.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/conditional/IfModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/recovery/RecoveryListener.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/DependencyDefinition.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/TimestampModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/TimestampModel.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/sift/SiftModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/ImplicitModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/sift/SiftingAppenderBase.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/sift/NOPSiftModelHandler.java
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* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/NamedComponentModel.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/processor/AppenderModelHandler.java
* /logback-core-1-5-7-sources-2-jar/ch/qos/logback/core/model/AppenderRefModel.java
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1.510 asm-analysis 9.5

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* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/BasicValue.java
*
/asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-analysis-9-5-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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/**
  * Constructs a new {@link BasicInterpreter} for the latest ASM API version. <i>Subclasses must
  * not use this constructor</i>. Instead, they must use the {@link #BasicInterpreter(int)}
  * version.
  */
```

Found in path(s):
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/**
  * Constructs a new {@link SourceInterpreter} for the latest ASM API version. <i>Subclasses must
  * not use this constructor</i>. Instead, they must use the {@link #SourceInterpreter(int)}
  * version.
  */
```

Found in path(s):
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1.511 asm-util 9.5

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* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/CheckModuleAdapter.java
*
 /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/Printer.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/TraceRecordComponentVisitor.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/ASMifier.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/CheckRecordComponentAdapter.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/Textifier.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/TraceModuleVisitor.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-util-9-5-sources-1-jar/org/objectweb/asm/util/TraceFieldVisitor.java
*
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1.512 idna 3.10

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1.513 bcprov-jdk18on 1.75

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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
* around this, please see:
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* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

Found in path(s):
* /bcprov-jdk18on-1-75-sources-1-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java

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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
*
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
*
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

Found in path(s):
* /bcprov-jdk18on-1-75-sources-1-jar/org/bouncycastle/crypto/macs/Poly1305.java
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// now keep space is free to use

Found in path(s):
* /bcprov-jdk18on-1-75-sources-1-jar/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java
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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC
competition,
* released under CC0-1.0 license.
*
*
* <a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-
3/submissions/NTRU-Round3.zip">NIST submission files
* License of reference
implementation
*/

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
* /bcprov-jdk18on-1-75-sources-1-jar/org/bouncycastle/asn1/x9/DomainParameters.java

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```
/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference implementation</a></p>
*
* @see <a href="https://csrc.nist.gov/Projects/post-quantum-cryptography/round-3-submissions">NIST round 3 PQC submissions page</a>
* @see <a href="https://ntru.org/">NTRU website</a>
* @see <a href="https://ntru.org/f/ntru-20190330.pdf">NTRU specification</a>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-75-sources-1-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
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```
/**
   * Magic value for proprietary OpenSSH private key.
   **/
```

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1.515 bcpkix-jdk18on 1.75

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/**
* Base constructor.
*
* The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
*
*
* Known suffixes is a list of public domain suffixes that can't be used as wild cards for
* example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
* If *.com is in the known suffixes list will not be allowed to match.
*
*
* @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
*/

Found in path(s):
* /bcpkix-jdk18on-1-75-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.516 testng 7.7.1

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FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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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
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It is currently developed by a community of developers.

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
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* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
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/**
   * Magic value for proprietary OpenSSH private key.
   **/

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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>

* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

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* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
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*
*
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implementation</p>
*/

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1.525 postgre-sql 42.7.4

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1.526 hibernate 6.5.3.Final

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*
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*/
/**

```
 * Read/write access to the shared second-level cache using
 * soft locks.
 * <p>
 * Indicates a non-vanishing likelihood that two concurrent
 * transactions attempt to update the same item of data
 * simultaneously. This strategy uses "soft" locks to prevent
 * concurrent transactions from retrieving or storing a stale
 * item from or in the cache during the transaction completion
 * process. A soft lock is simply a marker entry placed in the
 * cache while the updating transaction completes.
 * <ul>
 * <li>A second transaction may not read the item from the
 *     cache while the soft lock is present, and instead
 *     simply proceeds to read the item directly from
the
 *     database, exactly as if a regular cache miss had
 *     occurred.
 * <li>Similarly, the soft lock also prevents this second
 *     transaction from storing a stale item to the cache
 *     when it returns from its round trip to the database
 *     with something that might not quite be the latest
 *     version.
 * </ul>
 * <p>
 * This concurrency strategy is not compatible with
 * serializable transaction isolation.
 *
 * @see AccessType#READ_WRITE
 */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/CacheConcurrencyStrategy.java
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```
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#
org.hibernate.jpa.HibernatePersistenceProvider
```

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* /hibernate-core-6-5-3-final-sources-jar/META-INF/services/jakarta.persistence.spi.PersistenceProvider
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```
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```

```
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*/
/**
* JTA platform implementation intended for use with WebSphere Application Server (WAS).
* <p>
* WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
* Instead, for common transaction-related tasks users must utilize a proprietary API known as
ExtendedJTATransaction.
* <p>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon<ul>
*     <li>WAS version</li>
*     <li>the WAS container in which Hibernate will be utilized</li>
* </ul>
* <p>
* This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
*
* @author Gavin
 King
* @author Jesper Udby
* @author Steve Ebersole
*/

Found in path(s):
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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*/
// public DomainResult createDomainResult(

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralValuedSimplePath.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java
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 -->
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/orm_2_2.xsd
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_2_2.xsd
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*/
/**
 * Used to pass a CDI {@link jakarta.enterprise.inject.spi.BeanManager} to
 * Hibernate.
 * <p>
 * According to the JPA specification, the {@code BeanManager} should be
 * passed at boot time and be ready for immediate use at that time. But
 * not all environments can do this (WildFly, for example). To accommodate
 * such environments, Hibernate provides two options: <ol>
 *     <li> A proprietary CDI extension SPI (which has been proposed to the CDI
 *          spec group as a standard option) which can be used to provide delayed
 *          {@code BeanManager} access: to use this solution, the reference passed
 *          as the {@code BeanManager} during bootstrap should
be typed as
 *          {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
 *     <li> Delayed access to the {@code BeanManager} reference: here, Hibernate
 *          will not access the reference passed as the {@code BeanManager} during
 *          bootstrap until it is first needed. Note, however, that this has the
 *          effect of delaying the detection of any deployment problems until after
 *          bootstrapping.
 * </ol>
 *
 * This setting is used to configure access to the {@code BeanManager},
 * either directly, or via
 * {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
 *
 * @see org.hibernate.boot.SessionFactoryBuilder#applyBeanManager(Object)
 */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/ManagedBeanSettings.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/spi/MetamodelImplementor.java
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*/
/**
  * Use the proprietary WITH ROLLUP or WITH CUBE clause.
  */

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/GroupBySummarizationRenderingStrategy.java
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* Checker Framework utilities
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* THE SOFTWARE.
*/

Found in path(s):

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/NullnessUtil.java
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```
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*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
* Modified for https://jira.jboss.org/jira/browse/ISPN-299
* Includes ideas described in http://portal.acm.org/citation.cfm?id=1547428
*
*/
/**
* A hash table supporting full concurrency of retrievals and
* adjustable expected concurrency for updates. This class obeys the
* same functional specification as {@link java.util.Hashtable}, and
* includes versions of methods corresponding to each method of
* {@code Hashtable}. However, even though all operations are
* thread-safe, retrieval operations
 do <em>not</em> entail locking,
* and there is <em>not</em> any support for locking the entire table
* in a way that prevents all access.  This class is fully
* interoperable with {@code Hashtable} in programs that rely on its
* thread safety but not on its synchronization details.
* <p>
* <p> Retrieval operations (including {@code get}) generally do not
* block, so may overlap with update operations (including
* {@code put} and {@code remove}). Retrievals reflect the results
* of the most recently <em>completed</em> update operations holding
* upon their onset.  For aggregate operations such as {@code putAll}
* and {@code clear}, concurrent retrievals may reflect insertion or
* removal of only some entries.  Similarly, Iterators and
* Enumerations return elements reflecting the state of the hash table
* at some point at or since the creation of the iterator/enumeration.
* They do <em>not</em> throw {@link java.util.ConcurrentModificationException}.
* However,
 iterators are designed to be used by only one thread at a time.
* <p>
* <p> The allowed concurrency among update operations is guided by
* the optional {@code concurrencyLevel} constructor argument
* (default {@code 16}), which is used as a hint for internal sizing.  The
* table is internally partitioned to try to permit the indicated
```

```
* number of concurrent updates without contention. Because placement
* in hash tables is essentially random, the actual concurrency will
* vary.  Ideally, you should choose a value to accommodate as many
* threads as will ever concurrently modify the table. Using a
* significantly higher value than you need can waste space and time,
* and a significantly lower value can lead to thread contention. But
* overestimates and underestimates within an order of magnitude do
* not usually have much noticeable impact. A value of one is
* appropriate when it is known that only one thread will modify and
* all others will only read. Also, resizing this
 or any other kind of
* hash table is a relatively slow operation, so, when possible, it is
* a good idea to provide estimates of expected table sizes in
* constructors.
* <p>
* <p>This class and its views and iterators implement all of the
* <em>optional</em> methods of the {@link Map} and {@link Iterator}
* interfaces.
* <p>
* <p>This class is copied from Infinispan, and was originally written
* by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
* released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain</p>
* <p>
* <p>
* <p> Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does <em>not</em> allow {@code null} to be used as a key or value.
*
* @param <K> the type of keys maintained by this map
* @param <V> the type of mapped values
*
* @author Doug Lea
*/
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
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*/
//  "proprietary" methods is better (this class is "proprietary" too).
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/graph/EntityGraphs.java

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/InsertRowsCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/EmbeddableBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/TableSet.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/ParameterModeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/MergeOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/MultiKeyLoadHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyBinder.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilderStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/DiscriminatedAssociation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/MultiKeyLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyContainer.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/sql/results/jdbc/internal/JdbcValuesMappingProducerProviderStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/Restriction.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/model/domain/DiscriminatorSqmPath.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/FetchSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/TableContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/MultiTenancySettings.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/InsertRowsCoordinatorTablePerSubclass.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractTableUpdate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/RestrictedTableMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/AbstractMultiIdEntityLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/EntityBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/archive/spi/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/NaturalId.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ValuesAnalysis.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/SchemaAware.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/BaselineSessionEventsListenerBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/MutationGroupSingle.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobTypes.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableDeleteBuilderStandard.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/bytecode/internal/BytecodeEnhancementMetadataNonPojoImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaults.java

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/TableBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/RemoveCoordinatorTablePerSubclass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/ValidationMode.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/spi/Binder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/RestrictedTableMutationBuilder.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/tree/predicate/InArrayPredicate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/ProxoolSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/SoftDeletable.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaultsBasicImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/internal/MappingBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/ValidationSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractTableDelete.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ForeignKeyType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/IntegrationException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/DeleteCoordinatorStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/internal/DiscriminatorValueDetailsImpl.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/tree/insert/InsertStatement.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/CustomSqlMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/UpdateValuesAnalysis.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/cursor/internal/FallbackRefCursorSupport.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ToOneBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/ResourceStreamLocator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/UpdateRowsCoordinatorStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobCreationLogging.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/spi/ResultSetMappingContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/FetchTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/OptionalDeterminationSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableMutationBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/ValuedModelPart.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/SecondaryTableSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmHqlNumericLiteral.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/DeleteRowsCoordinatorTablePerSubclass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/AbstractDeleteCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/NoBatchKeyAccess.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/TransactionSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/internal/NaturalIdLoadAccessImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/RemoveCoordinatorStandard.java
* /hibernate-core-6-5-3-final-sources-

jar/org/hibernate/boot/jaxb/mapping/marshall/LockModeTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnyBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/TypeSafeActivator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/profile/internal/FetchProfileAffectee.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/EntityLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractRestrictedTableMutation.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/UpsertOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/AbstractCollectionBatchLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedColumns.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/MutationOperation.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/bytecode/internal/BytecodeEnhancementMetadataPojoImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/batch/spi/BatchBuilder.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/CollectionClassificationMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/AbstractMutationExecutor.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/HibernateTraversableResolver.java
*
/hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/internal/ContextProvidingValidationEventHandler.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ToOneFkSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableInsertCustomSql.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/EnumTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/CollectionPropertyHolder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/JdbcUpdateMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyHolder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/spi/MutationExecutorService.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/CacheSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/mutation/internal/cte/CteSoftDeleteHandler.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/JdbcValueBindingsImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/LifecycleCallbackContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/NamedEntityGraphDefinition.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/IndexedBiConsumer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/JpaComplianceSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/DeleteOrUpsertOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/exec/internal/JdbcOperationQueryInsertImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ClassLoaderAccessLazyImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/DefaultDiscriminatorConverter.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/internal/AbstractJavaTimeJdbcType.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ColumnsBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/SingleIdExecutionContext.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/SqmMultiTableMutationStrategyProviderInitiator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/SetBasicValueTypeSecondPass.java

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/archive/package-info.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/BeanValidationEventListener.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/internal/StandardResourceLocator.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/ConstraintModeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/SqlAstTranslatorWithMerge.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/OperationProducer.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/engine/jdbc/mutation/internal/StandardMutationExecutorService.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/StatisticsSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/QueryHintDefinition.java

*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/SchemaToolingSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/GroupsPerOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractTableMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/LocalTimeJdbcType.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/sql/model/ast/builder/ColumnValuesTableMutationBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/SqlInPredicateMultiKeyLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/PersistentAttribute.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/engine/jdbc/mutation/group/UnknownParameterException.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/UpdateRowsCoordinatorNoOp.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/StandardBooleanConverter.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/IdentifiableTypeClass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/ResourceLocator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/ColumnValueBindingList.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/MapKeyJoinColumnDelegator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperationQueryInsert.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/metamodel/mapping/internal/ManyToManyCollectionPart.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/engine/jdbc/mutation/internal/AbstractSingleMutationExecutor.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/model/internal/PkDrivenByDefaultMapsIdSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/SecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/property/access/internal/AccessStrategyHelper.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/xsd/MappingXsdSupport.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/AbstractUpdateRowsCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/DeleteRowsCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/ActivationContext.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/DiscriminatorTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/NullnessRestriction.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AbstractPropertyHolder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/cfgxml/spi/package-info.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/model/internal/NullableDiscriminatorColumnSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/ColumnWriteFragment.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/EntityOrMappedSuperclass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/archive/scan/spi/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/FilterDefBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/BatchSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/internal/EntityCollectionPart.java

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/PolymorphismTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/ModelMutationHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/C3p0Settings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/SimpleToOneFkSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/internal/ImmutableAttributeMappingList.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/spi/PropertyData.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/PreparedStatementDetailsStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/PreparedStatementGroupSingleTable.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/TableMapping.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/mutation/internal/SqmMultiTableMutationStrategyProviderStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/IdBagBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractTableInsert.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/ZonedDateTimeJdbcType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/internal/SoftDeleteMappingImpl.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractRestrictedTableMutationBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/internal/stax/LocalXmlResourceResolver.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/QueryBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/EntityBatchLoaderArrayParam.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/BlobAndClobCreator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/FetchOverrideSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/internal/SetObjectBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/SqlAstTranslatorWithUpsert.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PrimitiveArrayBinder.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/IndexColumn.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/group/PreparedStatementGroup.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/CreateKeySecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/FlushModeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedJoinColumn.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/MutationOperationGroupStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractTableInsertBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/internal/MutationStatementPreparerImpl.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/id/insert/BasicSelectingDelegate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/Nullability.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableInsertBuilderStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/DiscriminatorMapping.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/CollectionBatchLoader.java

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/ColumnValueBindingBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableDeleteStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/AbstractJdbcMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/TableDetails.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ObjectNameSource.java
*
/hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/ResultCheckStyleMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/spi/BatchKeyAccess.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/id/insert/InsertReturningDelegate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/QuerySettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/DeleteCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/JdbcValueDescriptorImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/MappingSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/convert/spi/RegisteredConversion.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableUpdateNoSet.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/BatchLoader.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/sql/results/jdbc/internal/JdbcValuesMappingProducerProviderInitiator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/exec/internal/AbstractJdbcOperationQueryInsert.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/TableUpdate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/AttributeMappingsMap.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/ConverterRegistration.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/batch/spi/Batch.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/engine/jdbc/mutation/internal/PreparedStatementGroupNone.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/tree/expression/UnparsedNumericLiteral.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedJoinColumns.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/internal/IdentifierLoadAccessImpl.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/InsertRowsCoordinatorNoOp.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/ToOneAttribute.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/internal/SimpleResourceLocator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/LifecycleCallback.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedColumn.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/DiscriminatorValueDetails.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/TableInsert.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableMergeBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/registry/classloading/spi/ClassLoaderService.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/InsertCoordinatorStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobCreationHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ComparisonRestriction.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/JavaTimeJdbcType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/XMLContext.java

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/TargetColumnAdapter.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/batch/JdbcBatchLogging.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/BinderHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/MutatingTableReference.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/internal/ParameterMarkerStrategyInitiator.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tuple/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cache/spi/access/AccessType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/StandardLobCreator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/FetchSecondPass.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/CacheAccessTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyHolderBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/AttributeMappingsList.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/AttributesContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/IndexOrUniqueKeySecondPass.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/AvailableSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/procedure/ParameterTypeException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/JdbcValueBindings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/WrappedInferredData.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/StandardBatchLoaderFactory.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/internal/BaseNaturalIdLoadAccessImpl.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/temptable/SoftDeleteExecutionDelegate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/MutationOperationGroup.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/SelfExecutingUpdateOperation.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaultsInsertableNonUpdateableImpl.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractTableMutationBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/MutationGroupStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ArrayBinder.java
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*/
// It supports a proprietary operator

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/MariaDBSqlAstTranslator.java
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*/
//   "5.3 in upgrading. It will be removed in a later version."

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/hibernate-mapping-3.0.dtd
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```
*/
/**
 * Subclass used to simply instantiation of singular attributes representing an entity's
 * version.
 */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java
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-->
```

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*/
/*
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* Expert Group and released to the public domain, as explained at
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```

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*/
/**
  * Does this dialect support the SQL {@code lateral} keyword or a
  * proprietary alternative?
  *
  * @return {@code true} if the underlying database supports lateral,
  * {@code false} otherwise.  The default is {@code false}.
  */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/Dialect.java
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*/
/**
  * In {@linkplain jakarta.persistence.InheritanceType#SINGLE_TABLE single table}
  * inheritance, subclasses share a table with the root class by definition. But
  * for {@linkplain jakarta.persistence.InheritanceType#JOINED joined} or
  * {@linkplain jakarta.persistence.InheritanceType#TABLE_PER_CLASS union} mappings,
  * the subclasses are assumed to occupy distinct tables, and it's an error to map
  * two subclasses to the same table.
  * <p>
  * As a special exception to this, if a joined inheritance hierarchy defines an
  * explicit {@link jakarta.persistence.DiscriminatorColumn}, we tolerate table
  * duplication among the subclasses, but we must "force" the discriminator to

 * account for this. (See issue HHH-14526.)
  */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/RootClass.java

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/spi/EmbeddableMapping.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tool/schema/internal/exec/GenerationTargetToDatabase.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/model/source/internal/hbm/PluralAttributeSourceArrayImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/boot/spi/PersistenceUnitDescriptor.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/processing/CheckHQL.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/result/ResultSetOutput.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/lock/PessimisticForceIncrementLockingStrategy.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/naming/ImplicitJoinTableNameSource.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tuple/IdentifierAttribute.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/id/enhanced/PooledOptimizer.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/results/graph/basic/CoercingResultAssembler.java
No license file was found, but licenses were detected in source scan.

<!--
 ~ Hibernate, Relational Persistence for Idiomatic Java
 ~
 ~ License: GNU Lesser General Public License (LGPL), version 2.1 or later.
 ~ See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.
 -->

Found in path(s):
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1.527 zstd-jni 1.5.6-4

1.527.1 Available under license :

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

Manifest-Version: 1.0
Specification-Title: zstd-jni
Specification-Version: 1.5.6-4
Specification-Vendor: com.github.luben
Implementation-Title: zstd-jni
Implementation-Version: 1.5.6-4
Implementation-Vendor: com.github.luben
Implementation-Vendor-Id: com.github.luben
Automatic-Module-Name: com.github.luben.zstd_jni
Bnd-LastModified: 1721499007163
Bundle-Name: zstd-jni
Bundle-SymbolicName: com.github.luben.zstd-jni
Bundle-Description: JNI bindings for Zstd native library that provides f
ast and high compression lossless algorithm for Java and all JVM langua
ges.
Bundle-Vendor: com.github.luben
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;description
=BSD 2-Clause License
Bundle-Version: 1.5.6.4
Bundle-ManifestVersion: 2
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Export-Package:
com.github.luben.zstd;version="1.5.6.4",com.github.luben
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Import-Package: org.osgi.framework;resolution:=optional
Private-Package: darwin.aarch64,darwin.x86_64,freebsd.amd64,freebsd.i386
,linux.aarch64,linux.amd64,linux.arm,linux.i386,linux.loongarch64,linux
.mips64,linux.ppc64,linux.ppc64le,linux.riscv64,linux.s390x,win.aarch64
,win.amd64,win.x86

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))"

Found in path(s):
* /zstd-jni-1-5-6-4-jar/META-INF/MANIFEST.MF

1.528 platformdirs 4.2.2

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1.529 jaraco.collections 5.1.0

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1.531 bash 5.2.37-r0

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* /protobuf-java-3-25-5-jar/google/protobuf/struct.proto
* /protobuf-java-3-25-5-jar/google/protobuf/timestamp.proto
* /protobuf-java-3-25-5-jar/google/protobuf/api.proto
* /protobuf-java-3-25-5-jar/google/protobuf/empty.proto
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 /protobuf-java-3-25-5-jar/google/protobuf/source_context.proto
* /protobuf-java-3-25-5-jar/google/protobuf/wrappers.proto
* /protobuf-java-3-25-5-jar/google/protobuf/duration.proto
* /protobuf-java-3-25-5-jar/google/protobuf/field_mask.proto
* /protobuf-java-3-25-5-jar/google/protobuf/any.proto
* /protobuf-java-3-25-5-jar/google/protobuf/descriptor.proto
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Manifest-Version: 1.0
Created-By: mergejars
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1726689439980
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/
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Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.25.5
Export-Package: com.google.protobuf;version="3.25.5",com.google.protobuf
.compiler;version="3.25.5";uses:="com.google.protobuf"
Import-Package: com.google.protobuf;version="[3.25,4)",sun.misc;resoluti
on:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Target-Label: //java/core:lite_runtime_only

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*/
/**
   * Defragment one member of the cluster by its endpoint.
   *
   * <p>
   * After compacting the keyspace, the backend database may exhibit internal
   * fragmentation. Any internal fragmentation is space that is free to use
   * by the backend but still consumes storage space. The process of
   * defragmentation
 releases this storage space back to the file system.
   * Defragmentation is issued on a per-member so that cluster-wide latency
   * spikes may be avoided.
   *
   * <p>
   * Defragment is an expensive operation. User should avoid defragmenting
   * multiple members at the same time.
   * To defragment multiple members in the cluster, user need to call defragment
   * multiple times with different endpoints.
   *
   * @param  target the etcd server endpoint.
   * @return        the response result
   */

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* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Maintenance.java
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*
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* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Client.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthRoleDeleteResponse.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/options/PutOption.java
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* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/lock/LockResponse.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/HttpNameResolver.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthDisableResponse.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/options/LeaseOption.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/MaintenanceImpl.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/lease/LeaseGrantResponse.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/HttpResolverProvider.java
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 /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/ByteSequence.java
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* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/lease/LeaseRevokeResponse.java
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* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/lease/LeaseTimeToLiveResponse.java
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 /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/cluster/MemberRemoveResponse.java
* /jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/AuthCredential.java
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1.536 libpsl 0.21.5-r3

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1.537 asm 9.7.1

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* /asm-9-7-1-sources-jar/org/objectweb/asm/TypeReference.java
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* /asm-9-7-1-sources-jar/org/objectweb/asm/Handle.java
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.544 utmps 0.1.2.3-r2

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1.545 python-pip 24.3.1

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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
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All Python releases are Open Source (see http://www.opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
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2.6	2.5	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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2.0	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
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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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1.549 jackson-databind 2.17.3

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Jackson JSON processor

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE:
The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology.
Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
          'room', Integer().subtype(
             implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
          )
      ),
```

```
    DefaultedNamedType(
      'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      )
    )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
```

```
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions
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BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/tagmap.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_namedval.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_decoder.py
*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/eoo.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/tag.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/cer/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/useful.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/compat/integer.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/namedval.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/error.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/opentype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/base.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_char.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/compat/__main__.py
*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/namedtype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_namedtype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/error.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/test_streaming.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test_encoder.py
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.. _license:

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=======

.. include:: ../../LICENSE.rst

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Metadata-Version: 2.1
Name: pyasn1
Version: 0.6.1

Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Home-page: https://github.com/pyasn1/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: pyasn1 maintenance organization
Maintainer-email: Christian Heimes <christian@python.org>
License: BSD-2-Clause
Project-URL: Documentation, https://pyasn1.readthedocs.io
Project-URL: Source, https://github.com/pyasn1/pyasn1
Project-URL: Issues, https://github.com/pyasn1/pyasn1/issues
Project-URL: Changelog, https://pyasn1.readthedocs.io/en/latest/changelog.html
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience
:: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Programming Language :: Python :: 3.11
Classifier: Programming Language :: Python :: 3.12
Classifier: Programming Language :: Python :: 3.13
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Requires-Python: >=3.8
Description-Content-Type: text/markdown
License-File: LICENSE.rst

ASN.1 library for Python

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[![Python
Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build
status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)
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Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE: The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
----

*
 Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
 Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python

prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id        INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
          'room', Integer().subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
          )
      ),
      DefaultedNamedType(
          'house', Integer(0).subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
          )
      )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
```

```
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send
back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room':
 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1`
 or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/PKG-INFO

* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1.egg-info/PKG-INFO
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst
No license file was found, but licenses were detected in source scan.

[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
 Documentation=https://pyasn1.readthedocs.io
 Source=https://github.com/pyasn1/pyasn1
 Issues=https://github.com/pyasn1/pyasn1/issues
 Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Console
 Intended Audience :: Developers
 Intended Audience :: Education
 Intended Audience :: Information Technology
 Intended Audience :: System
 Administrators
 Intended Audience :: Telecommunications Industry
 License :: OSI Approved :: BSD License
 Natural Language :: English
 Operating System :: OS Independent
 Programming Language :: Python :: 3
 Programming Language :: Python :: 3.8
 Programming Language :: Python :: 3.9
 Programming Language :: Python :: 3.10
 Programming Language :: Python :: 3.11
 Programming Language :: Python :: 3.12
 Programming Language :: Python :: 3.13
 Programming Language :: Python :: Implementation :: CPython

Programming Language :: Python :: Implementation :: PyPy
Topic :: Communications
Topic :: Software Development :: Libraries :: Python Modules

[options]
python_requires = >=3.8
zip_safe = True
setup_requires = setuptools
packages =
pyasn1
pyasn1.type
pyasn1.compat
pyasn1.codec
pyasn1.codec.ber
pyasn1.codec.cer
pyasn1.codec.der
pyasn1.codec.native

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.cfg

1.552 zstd 1.5.6

1.552.1 Available under license :

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Version 3.0, 18 August 2009

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1.554 ncurses 6.5_p20241006-r3

1.554.1 Available under license :

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-- $Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp $
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1.555 shiro 0.18.3

1.555.1 Available under license :

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

public DomainsKey(@NonNull String _domainid) {
public DomainsKey(DomainsKey source) {

Found in path(s):
* /aaa-shiro-api-0-18-4-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/domains/DomainsKey.java
No license file was found, but licenses were detected in source scan.

public Domains getDomains() {
public Domains getDomains() {
public Domains nonnullDomains() {

Found in path(s):
* /aaa-shiro-api-0-18-4-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/AuthenticationBuilder.java
No license file was found, but licenses were detected in source scan.

public DomainsBuilder() {
public DomainsBuilder(Domains base) {
public DomainsBuilder setDomains(final Map<DomainsKey, org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.aaa.rev161214.authentication.domains.Domains> values) {
public DomainsBuilder addAugmentation(Augmentation<Domains> augmentation) {
public DomainsBuilder removeAugmentation(Class<? extends Augmentation<Domains>> augmentationType) {

Found in path(s):
* /aaa-shiro-api-0-18-4-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/DomainsBuilder.java
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-->

Found in path(s):
* /aaa-shiro-api-0-18-4-sources-jar/META-INF/maven/org.opendaylight.aaa/aaa-shiro-api/pom.xml
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public DomainsBuilder() {
public DomainsBuilder(Domain arg) {
public DomainsBuilder(Domains base) {
public DomainsKey key() {
public DomainsBuilder withKey(final DomainsKey key) {
public DomainsBuilder setDescription(final String value) {
public DomainsBuilder setDomainid(final String value) {
public DomainsBuilder setName(final String value) {
public DomainsBuilder addAugmentation(Augmentation<Domains> augmentation) {
public DomainsBuilder removeAugmentation(Class<? extends Augmentation<Domains>> augmentationType) {
public DomainsKey key() {

Found in path(s):
* /aaa-shiro-api-0-18-4-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/domains/DomainsBuilder.java

1.556 ip-address 5.5.1

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* /ipaddress-5-5-1-jar/inet/ipaddr/IPAddressResources.properties

1.557 libcap 2.71-r0

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1.559 tomli 2.2.1

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* /lombok-1-18-36-sources-jar/lombok/core/LombokInternalAliasing.java
* /lombok-1-18-36-sources-jar/lombok/javac/java9/CommentCollectingParser.java
* /lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationDataType.java
* /lombok-1-18-36-sources-jar/lombok/javac/java8/CommentCollectingParser.java
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* /lombok-1-18-36-sources-jar/lombok/bytecode/AsmUtil.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleLog.java
* /lombok-1-18-36-sources-jar/lombok/bytecode/SneakyThrowsRemover.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleDelegate.java
* /lombok-1-18-36-sources-jar/lombok/javac/TreeMirrorMaker.java
* /lombok-1-18-36-sources-jar/lombok/bytecode/PreventNullAnalysisRemover.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleVal.java
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* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleAccessors.java

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* /lombok-1-18-36-sources-jar/lombok/core/FieldAugment.java
* /lombok-1-18-36-sources-jar/lombok/core/Augments.java
* /lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationKeysLoader.java
* /lombok-1-18-36-sources-jar/lombok/core/debug/ProblemReporter.java
* /lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationProblemReporter.java
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* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleNonNull.java
* /lombok-1-18-36-sources-jar/lombok/javac/java8/CommentCollectingTokenizer.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleNonNull.java
* /lombok-1-18-36-sources-jar/lombok/installer/eclipse/JbdsLocationProvider.java
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* /lombok-1-18-36-sources-jar/lombok/core/AgentLauncher.java
* /lombok-1-18-36-sources-jar/lombok/javac/package-info.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/package-info.java
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* /lombok-1-18-36-sources-jar/lombok/core/handlers/InclusionExclusionUtils.java
* /lombok-1-18-36-sources-jar/lombok/core/TypeResolver.java
* /lombok-1-18-36-sources-jar/lombok/EqualsAndHashCode.java
* /lombok-1-18-36-sources-jar/lombok/javac/JavacAST.java

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* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleGetter.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleGetter.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleSetter.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleSetter.java
* /lombok-1-18-36-sources-jar/lombok/delombok/DocCommentIntegrator.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/EclipseHandlerUtil.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/agent/EclipsePatcher.java
* /lombok-1-18-36-sources-jar/lombok/DirectoryRunner.java
* /lombok-1-18-36-sources-jar/lombok/core/AnnotationValues.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleSynchronized.java
*
 /lombok-1-18-36-sources-jar/lombok/AbstractRunTests.java
* /lombok-1-18-36-sources-jar/lombok/core/Version.java
* /lombok-1-18-36-sources-jar/lombok/javac/Javac.java
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* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleEqualsAndHashCode.java
* /lombok-1-18-36-sources-jar/lombok/transform/TestWithEcj.java
* /lombok-1-18-36-sources-jar/lombok/installer/eclipse/STSLocationProvider.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleData.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleToString.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleToString.java
* /lombok-1-18-36-sources-jar/lombok/transform/TestLombokFilesIdempotent.java
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* /lombok-1-18-36-sources-jar/lombok/transform/TestWithDelombok.java
* /lombok-1-18-36-sources-jar/lombok/delombok/DelombokApp.java
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* /lombok-1-18-36-sources-jar/lombok/javac/JavacNode.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/EclipseNode.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleEqualsAndHashCode.java
* /lombok-1-18-36-sources-jar/lombok/core/handlers/SneakyThrowsAndCleanupDependencyInfo.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/EclipseAST.java
* /lombok-1-18-36-sources-jar/lombok/installer/eclipse/EclipseLocationProvider.java
* /lombok-1-18-36-sources-jar/lombok/core/Main.java
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* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleSneakyThrows.java
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* /lombok-1-18-36-sources-jar/lombok/core/debug/AssertionLogger.java
* /lombok-1-18-36-sources-jar/lombok/experimental/Helper.java
* /lombok-1-18-36-sources-jar/lombok/javac/apt/Processor.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilSingularizer.java

* /lombok-1-18-36-sources-jar/lombok/eclipse/agent/PatchFixesShadowLoaded.java
* /lombok-1-18-36-sources-jar/lombok/core/handlers/Singulars.java
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* /lombok-1-18-36-sources-jar/lombok/core/configuration/FileSystemSourceCache.java
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* /lombok-1-18-36-sources-jar/lombok/val.java
* /lombok-1-18-36-sources-jar/lombok/extern/log4j/Log4j.java
* /lombok-1-18-36-sources-jar/lombok/Delegate.java
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* /lombok-1-18-36-sources-jar/lombok/javac/handlers/JavacSingularsRecipes.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseGuavaSingularizer.java
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* /lombok-1-18-36-sources-jar/lombok/Cleanup.java
* /lombok-1-18-36-sources-jar/lombok/Lombok.java
* /lombok-1-18-36-sources-jar/lombok/Data.java
* /lombok-1-18-36-sources-jar/lombok/Synchronized.java
* /lombok-1-18-36-sources-jar/lombok/SneakyThrows.java
* /lombok-1-18-36-sources-jar/lombok/Setter.java
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* /lombok-1-18-36-sources-jar/lombok/javac/java7/CommentCollectingParser.java
* /lombok-1-18-36-sources-jar/lombok/javac/java6/CommentCollectingParserFactory.java
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* /lombok-1-18-36-sources-jar/lombok/core/configuration/IdentifierName.java
* /lombok-1-18-36-sources-jar/lombok/core/handlers/LoggingFramework.java
* /lombok-1-18-36-sources-jar/lombok/CustomLog.java
* /lombok-1-18-36-sources-jar/lombok/core/CleanupRegistry.java
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* /lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationApp.java
* /lombok-1-18-36-sources-jar/lombok/core/configuration/FlagUsageType.java
* /lombok-1-18-36-sources-jar/lombok/javac/JavacAugments.java
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* /lombok-1-18-36-sources-jar/lombok/javac/apt/MessagerDiagnosticsReceiver.java
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* /lombok-1-18-36-sources-jar/lombok/eclipse/EclipseImportList.java
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*/
/**
  * Adds the given new method declaration to the provided type AST Node.
  * Can also inject constructors.
  *
  * Also takes care of updating the JavacAST.
  *

```
 * Ordinarily the 'source' is determined automatically. In rare cases generally involving combinations between
 * annotations, some of which require re-attribution such as {@code @Delegate}, that doesn't work. This method
 * exists if you explicitly have the source.
 */
```

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* /lombok-1-18-36-sources-jar/lombok/core/JavaIdentifiers.java
* /lombok-1-18-36-sources-jar/lombok/delombok/LombokOptionsFactory.java
* /lombok-1-18-36-sources-jar/lombok/delombok/FormatPreferenceScanner.java
* /lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationResolver.java
* /lombok-1-18-36-sources-jar/lombok/javac/Javac6BasedLombokOptions.java
* /lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationValueParser.java
* /lombok-1-18-36-sources-jar/lombok/core/LombokImmutableList.java
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* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleSingularRemove.java
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* /lombok-1-18-36-sources-jar/lombok/eclipse/agent/ExtensionMethodCompletionProposal.java
* /lombok-1-18-36-sources-jar/lombok/experimental/PackagePrivate.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/JavacResolver.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/agent/PatchExtensionMethodCompletionProposal.java
* /lombok-1-18-36-sources-jar/lombok/experimental/NonFinal.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/DeferUntilPostDiet.java
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* /lombok-1-18-36-sources-jar/lombok/javac/apt/Javac6BaseFileObjectWrapper.java
* /lombok-1-18-36-sources-jar/lombok/javac/apt/LombokFileObject.java
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* /lombok-1-18-36-sources-jar/lombok/eclipse/HandlerLibrary.java
* /lombok-1-18-36-sources-jar/lombok/javac/HandlerLibrary.java
* /lombok-1-18-36-sources-jar/lombok/core/AnnotationProcessor.java
* /lombok-1-18-36-sources-jar/lombok/ToString.java

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* /lombok-1-18-36-sources-jar/lombok/javac/JavacASTVisitor.java
* /lombok-1-18-36-sources-jar/lombok/javac/JavacASTAdapter.java
* /lombok-1-18-36-sources-jar/lombok/core/TypeLibrary.java
* /lombok-1-18-36-sources-jar/lombok/NonNull.java
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* /lombok-1-18-36-sources-jar/lombok/javac/java6/CommentCollectingScannerFactory.java
* /lombok-1-18-36-sources-jar/lombok/javac/java7/CommentCollectingScanner.java
* /lombok-1-18-36-sources-jar/lombok/javac/java6/CommentCollectingScanner.java
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* /lombok-1-18-36-sources-jar/lombok/RunTestsViaEcj.java
* /lombok-1-18-36-sources-jar/lombok/launch/PatchFixesHider.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/agent/PatchDelegate.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleConstructor.java
* /lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleLog.java
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* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleSuperBuilderRemove.java
* /lombok-1-18-36-sources-jar/lombok/installer/eclipse/RhcrLocationProvider.java
* /lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleBuilderRemove.java
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* /lombok-1-18-36-sources-jar/lombok/core/LombokConfiguration.java
* /lombok-1-18-36-sources-jar/lombok/Builder.java

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* /lombok-1-18-36-sources-jar/lombok/installer/AppleNativeLook.java
* /lombok-1-18-36-sources-jar/lombok/core/package-info.java
* /lombok-1-18-36-sources-jar/lombok/core/LombokApp.java
* /lombok-1-18-36-sources-jar/lombok/installer/package-info.java
* /lombok-1-18-36-sources-jar/lombok/installer/WindowsDriveInfo.java
* /lombok-1-18-36-sources-jar/lombok/javac/apt/package-info.java
* /lombok-1-18-36-sources-jar/lombok/installer/CorruptedIdeLocationException.java
* /lombok-1-18-36-sources-jar/lombok/core/runtimeDependencies/RuntimeDependencyInfo.java
* /lombok-1-18-36-sources-jar/lombok/AccessLevel.java
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1.565 procps 4.0.4-r2

1.565.1 Available under license :

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1.566 shadow 4.16.0-r1

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Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {

```
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}
```

```
sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
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```

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license tag for each file to get additional information.

```
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
```

```
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
```

```
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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1.567 py3-packaging 24.2-r0

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1.568 py3-pip 24.3.1-r0

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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 (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes

2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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created specifically to own Python-related Intellectual Property.
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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1.573 nspr 4.36-r0

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1.575 protobuf-java-util 3.25.5

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1726689423746
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: 3.25.5
Export-Package: com.google.protobuf.util;version="3.25.5";uses:="com.goo
gle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[32.0,33)",com.google.co
mmon.io;version="[32.0,33)",com.google.common.math;version="[32.0,33)",
com.google.common.primitives;version="[32.0,33)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f,javax.annotation;version="[3.0,4)",sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool:
 Bnd-6.4.0.202211291949
Created-By: mergejars

Found in path(s):
* /protobuf-java-util-3-25-5-jar/META-INF/MANIFEST.MF

1.576 jetcd-grpc 0.8.4

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1.577 jetty 11.0.24

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The following dependencies are EPL
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* org.eclipse.jetty.toolchain:jetty-schemas

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  .extension-form{
     .extension-license{
        padding: 50px;
     }
  }
  .extension-license {
     padding: 50px;
     >h6 {
        margin-bottom: 10px;
        text-transform: uppercase;
     }
     > p {
        margin-bottom: 25px;
     }
     .read-only-license {
        padding: 25px;
     }
     .dnn-multi-line-input-with-error {
        .dnn-label {
           text-transform: uppercase;
           padding-bottom: 5px;
        }
     }
  }
  .install-extension-box {
     .extension-license {
        .dnn-checkbox-container {
           float: none;
           text-align: center;
        }
     }
```

  }
}
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//   https://bitbucket.org/lindenlab/llsd
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// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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  <xsd:schema id="root" xmlns="" xmlns:xsd="https://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
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  </resheader>
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</resheader>
<resheader name="Writer">

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</resheader>
<data name="Copyright.Text">
<value>Copyright (c) {0} {1}</value>
</data>
</root>
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Json.NET
http://www.newtonsoft.com/products/json/
http://www.codeplex.com/json/

Description:

The Json.NET library makes working with JSON formatted data in .NET simple. Quickly read and write JSON using the JsonReader and JsonWriter or serialize your .NET objects with a single method call using the JsonSerializer. Json.NET's features include:

- Lightning fast JsonReader and JsonWriter
- The JsonSerializer for quickly converting your .NET objects to JSON and back again
- Json.NET can optionally produce well formatted, indented JSON for debugging or display
- Attributes like JsonIgnore and JsonProperty can be added to a class to customize how a class is serialized
- Ability to convert JSON to and from XML

Instructions:

1. Extract Newtonsoft.Json.dll and Newtonsoft.Json.xml from the archive's /bin directory into your own applications.
2. Add a reference to Newtonsoft.Json.dll within Visual Studio.NET to your project.

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import React, { Component } from "react";
import PropTypes from "prop-types";
import { GridCell, MultiLineInputWithError, Button, Checkbox } from "@dnnsoftware/dnn-react-common";
import { Scrollbars } from "react-custom-scrollbars";
import Localization from "localization";
import "./style.less";

const inputStyle = { width: "100%" };
const licenseBoxStyle = {
  border: "1px solid #c8c8c8",
  marginBottom: 25,
  height: 250,
  width: "100%"
};

class License extends Component {
  render() {
    const {props} = this;
    const {value} = props;
    /* eslint-disable react/no-danger */
    return (
      <GridCell className="extension-license extension-form">
        {props.installationMode && <h6>{Localization.get("InstallExtension_License.Header")}</h6>}
        {props.installationMode && <p dangerouslySetInnerHTML={{ __html:
Localization.get("InstallExtension_License.HelpText").replace("\\n", "<br/>") }}></p>}
        {!props.readOnly
&&
          <MultiLineInputWithError
            label={!props.installationMode && Localization.get("InstallExtension_License.Header")}
            style={inputStyle}
            value={value}
            enabled={!props.disabled}
            onChange={props.onChange && props.onChange.bind(this, "license")} />}
        {props.readOnly &&
          <Scrollbars style={licenseBoxStyle}>
            <div className="read-only-license" dangerouslySetInnerHTML={{ __html: value }}></div>
          </Scrollbars>
        }
        <Checkbox
          label={Localization.get("InstallExtension_AcceptLicense.Label")}
          value={props.licenseAccepted}
          onChange={props.onToggleLicenseAccept}
        />
```

```
          {!props.buttonsAreHidden && <GridCell columnSize={100} className="modal-footer">
            <Button type="neutral"
onClick={props.onCancel.bind(this)}>{Localization.get("Cancel.Button")}</Button>
            {!props.disabled && <Button type="primary" onClick={props.onSave.bind(this,
true)}>{Localization.get("EditModule_SaveAndClose.Button")}</Button>}
            {(!props.disabled || props.installationMode) && <Button type="primary"
onClick={props.onSave.bind(this)}
disabled={props.primaryButtonDisabled}>{props.primaryButtonText}</Button>}
          </GridCell>}
        </GridCell>
    );
  }
}

License.propTypes = {
  onCancel: PropTypes.func,
  readOnly: PropTypes.bool,
  onSave: PropTypes.func,
  value: PropTypes.string,
  onChange: PropTypes.func,
  primaryButtonText: PropTypes.string,
  licenseAccepted: PropTypes.bool,
  onToggleLicenseAccept: PropTypes.func
};

License.defaultProps = {
  licenseAccepted: false
};

export default License;
```

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PROJECT: jQuery MouseWheel

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domain-browser (Node's domain module for the web browser. This is merely an evented try...catch with the same API as node, nothing more.)
MIT License
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---

ee-first
(return the first event in a set of ee/event pairs)
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---

emojis-list (Complete list of standard emojis.)
MIT License
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encodeurl (Encode a URL to a percent-encoded form, excluding already-encoded sequences)
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encoding (Convert encodings, uses iconv by default and fallbacks to iconv-lite if needed)
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es-abstract (ECMAScript
spec abstract operations.)
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es-to-primitive (ECMAScript ToPrimitive algorithm. Provides ES5 and ES6 versions.)
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es5-ext (ECMAScript extensions and shims)
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es6-iterator (Iterator abstraction based on ES6 specification)
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es6-map (ECMAScript6 Map polyfill)
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es6-object-assign (ECMAScript 2015 (ES6) Object.assign polyfill and ponyfill)
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es6-promise (A lightweight library that provides tools for organizing asynchronous code)
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es6-set (ECMAScript6 Set polyfill)
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es6-symbol (ECMAScript 6 Symbol polyfill)
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es6-weak-map
(ECMAScript6 WeakMap polyfill)
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escape-html (Escape string for use in HTML)
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---

escape-string-regexp (Escape RegExp special characters)
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escope (ECMAScript scope analyzer)
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eslint (An AST-based pattern
checker for JavaScript.)
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eslint-loader (eslint loader (for webpack))
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eslint-plugin-react (React specific linting rules for ESLint)
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eslint-plugin-spellcheck (ESLint rules to spell check js files)
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---

globals (Global identifiers from different JavaScript environments)
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License
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espree (An Esprima-compatible JavaScript parser built on Acorn)
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esprima (ECMAScript parsing infrastructure for multipurpose analysis)
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estraverse (ECMAScript JS AST traversal functions)
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esutils (utility box for ECMAScript language tools)
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---

etag
(Create simple ETags)
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event-emitter (Environment agnostic event emitter)
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eventemitter3 (EventEmitter3 focuses on performance while maintaining a Node.js AND browser compatible interface.)
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events (Node's event emitter for all engines.)
MIT License
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eventsource
(W3C compliant EventSource client for Node.js)
MIT License
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exenv (React's ExecutionEnvironment module extracted for use in other packages & components)
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expand-brackets (Expand POSIX bracket expressions (character classes) in glob patterns.)
MIT License
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expand-range (Fast, bash-like range expansion. Expand a range of numbers or letters, uppercase or lowercase. See the benchmarks. Used by micromatch.)
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Referenced Licences.zip\expand-range\LICENSE
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express (Fast, unopinionated, minimalist web framework)
MIT License
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extglob (Convert extended globs to regex-compatible strings. Add (almost) the expressive power of regular expressions to glob patterns.)
MIT License
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fast-levenshtein (Efficient implementation of Levenshtein algorithm with locale-specific collator support.)
MIT License
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fbjs (A collection of utility libraries
used by other Facebook JS projects)
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figures (Unicode symbols with Windows CMD fallbacks)
MIT License
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file-entry-cache (Super simple cache for file metadata, useful for process that work o a given series of files and that only need to repeat the job on the changed ones since the previous run of the process)
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filesize (JavaScript library to generate a human readable String describing the file size)
MIT License
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---

fill-range
(Fill in a range of numbers or letters, optionally passing an increment or multiplier to use.)
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finalhandler (Node.js final http responder)
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flat-cache (A stupidly simple key/value storage using files to persist some data)
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flatten (Flatten arbitrarily nested arrays into a non-nested list of non-array items)
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---

for-in
(Iterate over the own and inherited enumerable properties of an object, and return an object with properties that evaluate to true from the callback. Exit early by returning `false`. JavaScript/Node.js)
MIT License
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---

for-own (Iterate over the own enumerable properties of an object, and return an object with properties that evaluate to true from the callback. Exit early by returning `false`. JavaScript/Node.js.)
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---

foreach (foreach component + npm package)
MIT License
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---

format-number-with-string
(Format a number based on a format string '-#,##0.##0')
MIT License
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---

forwarded (Parse HTTP X-Forwarded-For header)

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---

fresh (HTTP response freshness testing)
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---

fs.realpath (Use node's fs.realpath, but fall back to the JS implementation if the native one fails)
MIT License
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---

function-bind
(Implementation of Function.prototype.bind)
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generate-object-property (Generate safe JS code that can used to reference a object property)
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glob (a little globber)
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glob-base (Returns an object with the (non-glob) base path and the actual pattern.)
MIT License
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glob-parent
(Strips glob magic from a string to provide the parent path)
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---

globby (Extends `glob` with support for multiple patterns and exposes a Promise API)
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graceful-fs (A drop-in replacement for fs, making various improvements.)
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---

graceful-readlink (graceful fs.readlink)
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---

has (Object.prototype.hasOwnProperty.call
 shortcut)
MIT License
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---

has-ansi (Check if a string has ANSI escape codes)
MIT License
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---

has-flag (Check if argv has a specific flag)
MIT License
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hoist-non-react-statics (Copies non-react specific statics from a child component to a parent component)
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home-or-tmp (Get the user home directory with
 fallback to the system temp directory)
MIT License
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---

http-browserify (http module compatability for browserify)
MIT License
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---

http-errors (Create HTTP error objects)
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http-proxy (HTTP proxying for the masses)
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https-browserify (https module compatability for browserify)
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Licences.zip\https-browserify\LICENSE
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humanize (Javascript string formatter for human readability)
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---

iconv-lite (Convert character encodings in pure javascript.)
MIT License
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ieee754 (Read/write IEEE754 floating point numbers from/to a Buffer or array-like object)
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ignore (Ignore is a manager and filter for .gitignore rules.)
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image-size
(get dimensions of any image file)
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indexes-of (line String/Array#indexOf but return all the indexes in an array)
MIT License
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---

inflight (Add callbacks to requests in flight to avoid async duplication)
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inherits (Browser-friendly inheritance fully compatible with standard node.js inherits())
MIT License
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interpret
(A dictionary of file extensions and associated module loaders.)
MIT License
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---

invariant (invariant)
MIT License
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---

ipaddr.js (A library for manipulating IPv4 and IPv6 addresses in JavaScript.)
MIT License
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---

is-absolute-url (Check if an URL is absolute)
MIT License
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---

is-binary-path
(Check if a filepath is a binary file)
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---

is-buffer (Determine if an object is a Buffer)
MIT License
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is-callable (Is this JS value callable? Works with Functions and GeneratorFunctions, despite ES6 @@toStringTag.)
MIT License
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---

is-date-object (Is this value a JS Date object? This module works cross-realm/iframe, and despite ES6 @@toStringTag.)
MIT License
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---

is-dotfile
(Return true if a file path is (or has) a dotfile. Returns false if the path is a dot directory.)
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---

is-equal-shallow (Does a shallow comparison of two objects, returning false if the keys or values differ.)
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---

is-extendable (Returns true if a value is any of the object types: array, regexp, plain object, function or date. This is useful for determining if a value can be extended, e.g. "can the value have keys?")
MIT License
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is-extglob
(Returns true if a string has an extglob.)
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---

is-finite (ES2015 Number.isFinite() ponyfill)
MIT License
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---

is-fullwidth-code-point (Check if the character represented by a given Unicode code point is fullwidth)
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---

is-glob (Returns `true` if the given string looks like a glob pattern or an extglob pattern. This makes it easy to create code that only uses external modules like node-glob when necessary, resulting in much faster code execution and initialization time, and
a better user experience.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-glob\LICENSE
---

is-my-json-valid (A JSONSchema validator that uses code generation to be extremely fast)
MIT License
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---

is-number (Returns true if the value is a number. comprehensive tests.)
MIT License
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---

is-plain-obj (Check if a value is a plain object)

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is-posix-bracket (Returns true if the given string is a
POSIX bracket expression (POSIX character class).)
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---

is-primitive (Returns `true` if the value is a primitive.)
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---

is-property (Tests if a JSON property can be accessed using . syntax)
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---

is-regex (Is this value a JS regex? Works cross-realm/iframe, and despite ES6 @@toStringTag)
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---

is-resolvable (Check
if a module ID is resolvable with require())
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is-stream (Check if something is a Node.js stream)
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---

is-svg (Check if a string or buffer is SVG)
MIT License
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---

is-symbol (Determine if a value is an ES6 Symbol or not.)
MIT License
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---

isobject (Returns true if the value is an object and not an array or null.)
MIT License

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Persona Bar Referenced Licences.zip\isobject\LICENSE
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isomorphic-fetch (Isomorphic WHATWG Fetch API, for Node & Browserify)
MIT License
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js-base64 (Yet another Base64 transcoder in pure-JS)
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js-tokens (A regex that tokenizes JavaScript.)
MIT License
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js-yaml (YAML 1.2 parser and serializer)
MIT License
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jsesc
(A JavaScript library for escaping JavaScript strings while generating the shortest possible valid output.)
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json-stable-stringify (deterministic JSON.stringify() with custom sorting to get deterministic hashes from stringified results)
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json-stringify-safe (Like JSON.stringify, but doesn't blow up on circular refs.)
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json3 (A modern JSON implementation compatible with nearly all JavaScript
platforms.)
MIT License
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---

jsonpointer (Simple JSON Addressing.)

MIT License
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kind-of (Get the native type of a value.)
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lazy-cache (Cache requires to be lazy-loaded when needed.)
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less (Leaner CSS)
Apache License
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---

less-loader
(less loader module for webpack)
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levn (Light ECMAScript (JavaScript) Value Notation - human written, concise, typed, flexible)
MIT License
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loader-utils (utils for webpack loaders)
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lodash-es (Lodash exported as ES modules.)
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lodash.assign (The modern build of lodashs
`_.assign` as a module.)
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lodash.camelcase (The modern build of lodashs `_.camelCase` as a module.)
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lodash.debounce (The modern build of lodashs `_.debounce` as a module.)
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lodash.deburr (The lodash method `_.deburr` exported as a module.)
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lodash.isarguments (The lodash method
`_.isArguments` exported as a module.)
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lodash.isarray (The modern build of lodashs `_.isArray` as a module.)
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lodash.keys (The modern build of lodashs `_.keys` as a module.)
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lodash.memoize (The lodash method `_.memoize` exported as a module.)
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lodash.restparam (The modern build
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lodash.uniq (The lodash method `_.uniq` exported as a module.)
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lodash.words (The lodash method `_.words` exported as a module.)
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lodash._baseassign (The modern build of lodashs internal `baseAssign` as a module.)
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lodash._basecopy (The modern
build of lodashs internal `baseCopy` as a module.)
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lodash._bindcallback (The modern build of lodashs internal `bindCallback` as a module.)
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lodash._createassigner (The modern build of lodashs internal `createAssigner` as a module.)
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lodash._createcompounder (The modern build of lodashs internal `createCompounder` as a module.)
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lodash._getnative
(The modern build of lodashs internal `getNative` as a module.)
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lodash._isiterateecall (The modern build of lodashs internal `isIterateeCall` as a module.)
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lodash._root (The internal lodash function `root` exported as a module.)
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---

longest (Get the longest item in an array.)
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loose-envify
(Fast (and loose) selective `process.env` replacer using js-tokens instead of an AST)
MIT License
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math-expression-evaluator (A flexible math expression evaluator)
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media-typer (Simple RFC 6838 media type parser and formatter)
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merge-descriptors (Merge objects using descriptors)
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---

methods
(HTTP methods that node supports)
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---

micromatch (Glob matching for javascript/node.js. A drop-in replacement and faster alternative to minimatch and multimatch.)
MIT License
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mime (A comprehensive library for mime-type mapping)
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---

mime-db (Media Type Database)
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mime-types
(The ultimate javascript content-type utility.)
MIT License
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minimist (parse argument options)
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mkdirp (Recursively mkdir, like `mkdir -p`)
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moment (Parse, validate, manipulate, and display dates)
MIT License
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mute-stream (Bytes go in, but they don't come out (when muted).)
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File: Admin Persona Bar Referenced Licences.zip\mute-stream\LICENSE
---

negotiator (HTTP content negotiation)
MIT License
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node-fetch (A light-weight module that brings window.fetch to node.js and io.js)
MIT License
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readable-stream (Streams3, a user-land copy of the stream library from Node.js v0.11.x)
MIT License
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normalize-path (Normalize file path slashes to be unix-like forward slashes. Also condenses
repeat slashes to a single slash and removes and trailing slashes.)
MIT License
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normalize-range (Utility for normalizing a numeric range, with a wrapping function useful for polar coordinates)
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normalize-url (Normalize a URL)
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num2fraction (Convert number to fraction)
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number-is-nan (ES2015 Number.isNaN()
ponyfill)
MIT License
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object-assign (ES2015 `Object.assign()` ponyfill)
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object-keys (An Object.keys replacement, in case Object.keys is not available. From https://github.com/es-shims/es5-shim)
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---

object.omit (Return a copy of an object excluding the given key, or array of keys. Also accepts an optional filter function as the last argument.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\object.omit\LICENSE
---

on-finished
(Execute a callback when a request closes, finishes, or errors)
MIT License
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---

on-headers (Execute a listener when a response is about to write headers)
MIT License
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---

once (Run a function exactly one time)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\once\LICENSE

---

onetime (Only call a function once)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\onetime\license
---

optimist (Light-weight option parsing with
an argv hash. No optstrings attached.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\optimist\LICENSE
---

wordwrap (Wrap those words. Show them at what columns to start and stop.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\wordwrap\LICENSE
---

optionator (option parsing and help generation)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\optionator\LICENSE
---

original (Generate the origin from an URL or check if two URL/Origins are the same)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\original\LICENSE
---

url-parse (Small footprint URL parser that works seamlessly
across Node.js and browser environments)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\url-parse\LICENSE
---

os-browserify ()
MIT License
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---

os-homedir (Node.js 4 `os.homedir()` ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\os-homedir\license
---

os-tmpdir (Node.js os.tmpdir() ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\os-tmpdir\license
---

pako (zlib port to javascript - fast, modularized, with browser support)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pako\LICENSE
---

parse-glob
(Parse a glob pattern into an object of tokens.)
MIT License
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---

parse-key (Parses strings into key objects of the same format as the ones emitted by nodejs readline.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\parse-key\LICENSE
---

parseurl (parse a url with memoization)
MIT License
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---

path-browserify (the path module from node core for browsers)
MIT License
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---

path-exists
(Check if a path exists)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\path-exists\license
---

path-is-absolute (Node.js 0.12 path.isAbsolute() ponyfill)
MIT License
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---

path-is-inside (Tests whether one path is inside another path)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\path-is-inside\LICENSE.txt
---

path-to-regexp (Express style path to RegExp utility)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\path-to-regexp\LICENSE
---

pbkdf2-compat
(Provides the functionality of PBKDF2 with the ability to use any natively supported Node crypto hashing algorithm.)
MIT License
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---

performance-now (Implements performance.now (based on process.hrtime).)
MIT License
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---

pify (Promisify a callback-style function)
MIT License
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---

pinkie (Itty bitty little widdle twinkie pinkie ES2015 Promise implementation)
MIT License
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---

pinkie-promise
(ES2015 Promise ponyfill)
MIT License
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---

pluralize (Pluralize and singularize any word)
MIT License
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---

postcss (Tool for transforming styles with JS plugins)
MIT License
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---

supports-color (Detect whether a terminal supports color)
MIT License
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---

postcss-calc (PostCSS plugin to reduce calc())
MIT License
License File: Admin
Persona Bar Referenced Licences.zip\postcss-calc\LICENSE
---

postcss-colormin (Minify colors in your CSS files with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-colormin\LICENSE-MIT
---

postcss-convert-values (Convert values with PostCSS (e.g. ms -> s))
MIT License
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postcss-discard-comments (Discard comments in your CSS files with PostCSS.)
MIT License
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---

postcss-discard-duplicates (Discard duplicate rules in your CSS files with PostCSS.)
MIT
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postcss-discard-empty (Discard empty rules and values with PostCSS.)
MIT License
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postcss-discard-overridden (PostCSS plugin to discard overridden @keyframes or @counter-style.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-discard-overridden\LICENSE
---

postcss-discard-unused (Discard unused counter styles, keyframes and fonts.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-discard-unused\LICENSE-MIT
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postcss-filter-plugins
(Exclude/warn on duplicated PostCSS plugins.)
MIT License
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postcss-merge-idents (Merge keyframe and counter style identifiers.)
MIT License
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postcss-merge-longhand (Merge longhand properties into shorthand with PostCSS.)
MIT License
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postcss-merge-rules (Merge CSS rules with PostCSS.)
MIT License
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postcss-message-helpers
(PostCSS helpers to throw or output GNU style messages)
MIT License
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postcss-minify-font-values (Minify font declarations with PostCSS)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-minify-font-values\LICENSE
---

postcss-minify-gradients (Minify gradient parameters with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-minify-gradients\LICENSE-MIT
---

postcss-minify-params (Minify at-rule params with PostCSS)
MIT License
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---

postcss-minify-selectors
(Minify selectors with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-minify-selectors\LICENSE-MIT
---

postcss-modules-local-by-default (A CSS Modules transform to make local scope the default)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-modules-local-by-default\LICENSE
---

regexpu-core (regexpus core functionality (i.e. `rewritePattern(pattern, flag)`), capable of translating ES6 Unicode regular expressions to ES5.)
MIT License
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postcss-normalize-charset (Add necessary or remove
extra charset with PostCSS)
MIT License
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---

postcss-normalize-url (Normalize URLs with PostCSS)
MIT License
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postcss-ordered-values (Ensure values are ordered consistently in your CSS.)
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postcss-reduce-idents (Reduce custom identifiers with PostCSS.)
MIT License
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---

postcss-reduce-initial
(Reduce initial definitions to the actual initial value, where possible.)
MIT License
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postcss-reduce-transforms (Reduce transform functions with PostCSS.)
MIT License
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postcss-selector-parser ()
MIT License
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postcss-svgo (Optimise inline SVG with PostCSS.)
MIT License
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---

postcss-unique-selectors
(Ensure CSS selectors are unique.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-unique-selectors\LICENSE-MIT
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postcss-value-parser (Transforms css values and at-rule params into the tree)
MIT License
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---

postcss-zindex (Reduce z-index values with PostCSS.)
MIT License
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prefix-style (gets a prefixed name for a css style)
MIT License
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---

prelude-ls (prelude.ls is a functionally
oriented utility library. It is powerful and flexible. Almost all of its functions are curried. It is written in, and is the recommended base library for, LiveScript.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\prelude-ls\LICENSE
---

prepend-http (Prepend `http://` to humanized URLs like todomvc.com and localhost)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\prepend-http\license
---

preserve (Temporarily substitute tokens in the given `string` with placeholders, then put them back after transforming the string.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\preserve\LICENSE
---

private (Utility for associating truly private state with any JavaScript object)
MIT License
License
File: Admin Persona Bar Referenced Licences.zip\private\LICENSE
---

process (process information for node.js and browsers)
MIT License
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---

process-nextick-args (process.nextTick but always with args)
MIT License
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---

progress (Flexible ascii progress bar)
MIT License
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---

promise (Bare bones Promises/A+ implementation)
MIT License
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proxy-addr
(Determine address of proxied request)
MIT License
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---

prr (A better Object.defineProperty())
MIT License
License File: Admin Persona Bar Referenced Licences.zip\prr\LICENSE
---

punycode (A robust Punycode converter that fully complies to RFC 3492 and RFC 5891, and works on nearly all JavaScript platforms.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\punycode\LICENSE-MIT.txt
---

q (A library for promises (CommonJS/Promises/A,B,D))
MIT License
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---

qs
(A querystring parser that supports nesting and arrays, with a depth limit)
MIT License
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---

query-string (Parse and stringify URL query strings)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\query-string\license
---

querystring (Node's querystring module for all engines.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\querystring\License.md
---

querystring-es3 (Node's querystring module for all engines. (ES3 compat fork))
MIT License
License File: Admin Persona Bar Referenced Licences.zip\querystring-es3\License.md
---

querystringify
(Querystringify - Small, simple but powerful query string parser.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\querystringify\LICENSE
---

randomatic (Generate randomized strings of a specified length, fast. Only the length is necessary, but you can optionally generate patterns using any combination of numeric, alpha-numeric, alphabetical, special or custom characters.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\randomatic\LICENSE
---

range-parser (Range header field string parser)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\range-parser\LICENSE
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react (React is a JavaScript library for building user interfaces.)
MIT License
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react-collapse (Component-wrapper for collapse animation with react-motion for elements with variable (and dynamic) height)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-collapse\LICENSE
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react-custom-scrollbars (React scrollbars component)
MIT License
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react-dock (Resizable dockable react component)
MIT License
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react-dom (React package for working with the DOM.)
MIT License

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Bar Referenced Licences.zip\react-dom\LICENSE
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react-height (Component-wrapper to determine and report children elements height)
MIT License
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react-json-tree (React JSON Viewer Component, Extracted from redux-devtools)
MIT License
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react-modal (Accessible modal dialog component for React.JS)
MIT License
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react-motion (A spring that solves your animation problems.)
MIT License
License File: Admin Persona Bar
Referenced Licences.zip\react-motion\LICENSE
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react-pure-render (A function, a component and a mixin for React pure rendering)
MIT License
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react-redux (Official React bindings for Redux)
MIT License
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react-tabs (React tabs component)
MIT License
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---

react-tooltip (react tooltip component)
MIT License
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react-widgets
(An la carte set of polished, extensible, and accessible inputs built for React)
MIT License

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readdirp (Recursive version of fs.readdir with streaming api.)
MIT License
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reduce-css-calc (Reduce CSS calc() function to the maximum)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\reduce-css-calc\LICENSE
---

reduce-function-call (Reduce function calls in a string, using a callback)
MIT License
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---

redux
(Predictable state container for JavaScript apps)
MIT License
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---

redux-devtools (Redux DevTools with hot reloading and time travel)
MIT License
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---

redux-devtools-dock-monitor (A resizable and movable dock for Redux DevTools monitors)
MIT License
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---

redux-devtools-log-monitor (The default tree view monitor for Redux DevTools)
MIT License
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---

redux-devtools-themes
(Color themes for Redux DevTools monitors)
MIT License
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redux-immutable-state-invariant (Redux middleware that detects mutations between and outside redux dispatches. For development use only.)
MIT License

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redux-thunk (Thunk middleware for Redux.)
MIT License
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regenerate (Generate JavaScript-compatible regular expressions based on a given set of Unicode
symbols or code points.)
MIT License
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---

regex-cache (Memoize the results of a call to the RegExp constructor, avoiding repetitious runtime compilation of the same string and options, resulting in suprising performance improvements.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\regex-cache\LICENSE
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regjsgen (Generate `RegExp`s from RegJSParsers AST)
MIT License
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regjsparser ()
MIT License
License File: Admin Persona Bar Referenced Licences.zip\regjsparser\LICENSE.BSD
---

repeat-element
(Create an array by repeating the given value n times.)
MIT License
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---

repeat-string (Repeat the given string n times. Fastest implementation for repeating a string.)
MIT License
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---

repeating (Repeat a string - fast)
MIT License
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---

require-uncached (Require a module bypassing the cache)
MIT License

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---

requires-port (Check if
a protocol requires a certain port number to be added to an URL.)
MIT License
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resolve-from (Resolve the path of a module like require.resolve() but from a given path)
MIT License
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---

restore-cursor (Gracefully restore the CLI cursor on exit)
MIT License
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right-align (Right-align the text in a string.)
MIT License
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rimraf (A deep deletion module
for node (like `rm -rf`))
MIT License
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run-async (Utility method to run function either synchronously or asynchronously using the common `this.async()` style.)
MIT License
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sax (An evented streaming XML parser in JavaScript)
MIT License
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send (Better streaming static file server with Range and conditional-GET support)
MIT License
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serve-index (Serve directory listings)
MIT

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serve-static (Serve static files)
MIT License
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setimmediate (A shim for the setImmediate efficient script yielding API)
MIT License
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---

setprototypeof (A small polyfill for Object.setprototypeof)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\setprototypeof\LICENSE
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sha.js (streaming sha1 hash in pure javascript)
MIT License
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shebang-regex
(Regular expression for matching a shebang)
MIT License
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---

shelljs (Portable Unix shell commands for Node.js)
BSD License
License File: Admin Persona Bar Referenced Licences.zip\shelljs\LICENSE
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slice-ansi (Slice a string with ANSI escape codes)
MIT License
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---

sockjs (SockJS-node is a server counterpart of SockJS-client a JavaScript library that provides a WebSocket-like object in the browser. SockJS gives you a coherent, cross-browser, Javascript API which creates a
low latency, full duplex, cross-domain communication channel between the browser and the web server.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\sockjs\LICENSE
---

sockjs-client (SockJS-client is a browser JavaScript library that provides a WebSocket-like object. SockJS gives you

a coherent, cross-browser, Javascript API which creates a low latency, full duplex, cross-domain communication channel between the browser and the web server.)
MIT License
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sort-keys (Sort the keys of an object)
MIT License
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source-map (Generates and consumes source maps)
MIT License
License
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---

source-map-support (Fixes stack traces for files with source maps)
MIT License
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sprintf-js (JavaScript sprintf implementation)
MIT License
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statuses (HTTP status utility)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\statuses\LICENSE
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stream-browserify (the stream module from node core for browsers)
MIT License
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stream-cache
(A simple way to cache and replay readable streams.)
MIT License
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strict-uri-encode (A stricter URI encode adhering to RFC 3986)
MIT License
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---

string-width (Get the visual width of a string - the number of columns required to display it)
MIT License
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---

string_decoder (The string_decoder module from Node core)
MIT License
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strip-ansi
(Strip ANSI escape codes)
MIT License
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---

strip-json-comments (Strip comments from JSON. Lets you use comments in your JSON files!)
MIT License
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---

svgo (Nodejs-based tool for optimizing SVG vector graphics files)
MIT License
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symbol-observable (Symbol.observable ponyfill)
MIT License
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---

table
(Formats data into a string table.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\table\LICENSE
---

text-table (borderless text tables with alignment)
MIT License
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throttle-debounce (Throttle/debounce your functions.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\throttle-debounce\LICENSE.md
---

through (simplified stream construction)

Apache License
License File: Admin Persona Bar Referenced Licences.zip\through\LICENSE.APACHE2
---

timers-browserify (timers module for browserify)
MIT License
License
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---

to-fast-properties (Force V8 to use fast properties for an object)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\to-fast-properties\license
---

trim-right (Similar to String#trim() but removes only whitespace on the right)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\trim-right\license
---

tty-browserify (the tty module from node core for browsers)
MIT License
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---

type-check (type-check allows you to check the types of JavaScript values at runtime
with a Haskell like type syntax.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\type-check\LICENSE
---

type-is (Infer the content-type of a request.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\type-is\LICENSE
---

typedarray (TypedArray polyfill for old browsers)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\typedarray\LICENSE
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uglify-js (JavaScript parser, mangler/compressor and beautifier toolkit)
BSD License
License File: Admin Persona Bar Referenced Licences.zip\uglify-js\LICENSE
---

uglify-to-browserify (A transform to make UglifyJS work in browserify.)
MIT License

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Persona Bar Referenced Licences.zip\uglify-to-browserify\LICENSE
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uniq (Removes duplicates from a sorted array in place)
MIT License
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unpipe (Unpipe a stream from all destinations)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\unpipe\LICENSE
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url (The core `url` packaged standalone for use with Browserify.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\url\LICENSE
---

user-home (Get the path to the user home directory)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\user-home\license
---

util
(Node.JS util module)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\util\LICENSE
---

util-deprecate (The Node.js `util.deprecate()` function with browser support)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\util-deprecate\LICENSE
---

utils-merge (merge() utility function)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\utils-merge\LICENSE
---

uuid (Rigorous implementation of RFC4122 (v1 and v4) UUIDs.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\uuid\LICENSE.md
---

vary (Manipulate the HTTP Vary header)
MIT

License
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PROJECT: Castle Core

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* @overview es6-promise - a tiny implementation of Promises/A+.
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* @license   Licensed under MIT license
*            See https://raw.githubusercontent.com/stefanpenner/es6-promise/master/LICENSE
* @version   v4.2.8+1e68dce6
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//! moment.js locale configuration
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PROJECT: hoverIntent

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PROJECT LINK: https://github.com/briancherne/jquery-hoverIntent

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hoverIntent v1.10.0 // 2019.02.25 // jQuery v1.7.0+
http://briancherne.github.io/jquery-hoverIntent/

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PROJECT LINK: https://github.com/loresoft/msbuildtasks

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PROJECT: WebFormsMVP

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LICENSE TYPE: Ms-PL

PROJECT LINK: https://github.com/webformsmvp/webformsmvp

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PROJECT: jQuery TimePicker

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PROJECT: CodeMirror

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</resheader>
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</resheader>
<data name="Copyright.Text">
<value>Tous droits rservs © {0} {1}</value>
</data>
</root>

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.580 jackson-databind 2.18.2

1.580.1 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.

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Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.581 libncursesw 6.5_p20241006-r3

1.581.1 Available under license :

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

ncurses 6.5 - patch 20241006 - Thomas E. Dickey

```
#
# -------------------------------------------------------------------------
#
# Ncurses 6.5 is at
#   https://invisible-island.net/archives/ncurses/
#   https://invisible-mirror.net/archives/ncurses/
#   https://ftp.gnu.org/gnu/ncurses/
#
# Patches for ncurses 6.5 can be found at
#   https://invisible-island.net/archives/ncurses/6.5
#   https://invisible-mirror.net/archives/ncurses/6.5
#
# -------------------------------------------------------------------------
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created  Sun Oct  6 23:44:01 UTC 2024
# -------------------------------------------------------------------------
# NEWS                          |   6 +++
# VERSION                       |   2 -
# c++/cursesf.cc                |   6 +--
# c++/cursesf.h
                |   6 +--
# c++/cursesm.cc                |   6 +--
# c++/cursesm.h                 |   6 +--
# c++/cursesp.cc                |   6 +--
# c++/cursespad.cc              |   6 +--
# c++/cursslk.cc                |  12 +++----
# c++/cursslk.h                 |   6 +--
# dist.mk                       |   4 +-
# misc/terminfo.src             |  23 ++++++++++--
# ncurses/base/lib_screen.c     |   4 +-
# ncurses/base/new_pair.c       |   4 +-
# ncurses/curses.priv.h         |   4 +-
# ncurses/new_pair.h            |   4 +-
# ncurses/tinfo/trim_sgr0.c     |   7 ++--
# ncurses/tty/lib_twait.c       |   6 +--
# package/debian-mingw/changelog  |   4 +-
# package/debian-mingw64/changelog |   4 +-
# package/debian/changelog      |   4 +-
# package/mingw-ncurses.nsi     |   4 +-
# package/mingw-ncurses.spec    |   2 -
# package/ncurses.spec          |   2 -
# package/ncursest.spec         |
  2 -
# test/blue.c                   |  10 +++---
# test/bs.c                     |   8 ++--
# test/cardfile.c               |  12 +++----
# test/chgat.c                  |   6 +--
```

```
# test/clip_printw.c            |   8 ++--
# test/color_name.h             |   6 +--
# test/demo_defkey.c            |   4 +-
# test/demo_forms.c             |  22 ++++++-------
# test/demo_menus.c             |  32 ++++++++++---------
# test/demo_new_pair.c          |   4 +-
# test/demo_panels.c            |  16 ++++-----
# test/demo_termcap.c           |  18 +++++-----
# test/demo_terminfo.c          |  18 +++++-----
# test/dots.c                   |   6 +--
# test/dots_mvcur.c             |   6 +--
# test/dots_termcap.c           |   8 ++--
# test/dup_field.c              |  14 ++++----
# test/filter.c                 |   6 +--
# test/form_driver_w.c          |   6 +--
# test/gdc.c                    |  10 +++---
# test/inch_wide.c
                |   6 +--
# test/inchs.c                  |   6 +--
# test/ins_wide.c               |   6 +--
# test/insdelln.c               |   8 ++--
# test/inserts.c                |   6 +--
# test/knight.c                 |   7 ++--
# test/list_keys.c              |   8 ++--
# test/move_field.c             |  18 +++++-----
# test/movewindow.c             |  16 ++++-----
# test/ncurses.c                |  61 ++++++++++++++++++++------------------
# test/padview.c                |  12 +++----
# test/parse_rgb.h              |   6 +--
# test/picsmap.c                |  14 ++++----
# test/popup_msg.c              |   8 ++--
# test/popup_msg.h              |   6 +--
# test/railroad.c               |   6 +--
# test/rain.c                   |  20 ++++++------
# test/redraw.c                 |   6 +--
# test/savescreen.c             |  14 ++++----
# test/tclock.c                 |   4 +-
# test/test.priv.h
                |  10 +++---
# test/test_add_wchstr.c        |   6 +--
# test/test_addchstr.c          |   6 +--
# test/test_addstr.c            |   6 +--
# test/test_addwstr.c           |   6 +--
# test/test_endwin.c            |   6 +--
# test/test_get_wstr.c          |   8 ++--
# test/test_getstr.c            |   8 ++--
# test/test_instr.c             |   8 ++--
# test/test_inwstr.c            |   8 ++--
```

```
# test/test_mouse.c              |   4 +-
# test/test_opaque.c             |   8 ++--
# test/test_sgr.c                |  26 +++++++--------
# test/test_tparm.c              |  12 +++++----
# test/test_vidputs.c            |   6 +--
# test/testcurs.c                |   8 ++--
# test/testscanw.c               |   6 +--
# test/view.c                    |  21 +++++-------
# 83 files changed, 392 insertions(+), 369 deletions(-)
# ------------------------------------------------------------------------------
Index: NEWS
Prereq:
  1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
-- sale, use or other dealings in this Software without prior written        --
-- authorization.                                                           --
--------------------------------------------------------------------------------
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+-- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
--------------------------------------------------------------------------------

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+
20240928
  + improve error-message from infocmp when a terminal entry cannot be
    opened (patch by Branden Robinson).
Index:
 VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq:  1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
```

```
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@@ -36,7 +36,7 @@
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+  const NCursesApplication* S = NCursesApplication::getApplication();

  int n = count();
  if (n > 0) {
Index: c++/cursesf.h
Prereq:  1.39
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode
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@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
```

```
  }

  inline void *get_user() {
-    UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
+    const UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
    return uptr->m_user;
  }
Index: c++/cursesm.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
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@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void
NCursesMenu::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq:  1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
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@@ -32,7 +32,7 @@
 *   Author: Juergen Pfeifer, 1997                                      *
 ****************************************************************************/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+    const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
    return uptr->m_user;
  }
Index: c++/cursesp.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
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@@ -35,7 +35,7 @@
#include "internal.h"
#include "cursesp.h"

-MODULE_ID("$Id: cursesp.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursesp.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
```

```
-  PANEL *pan;
+  const PANEL *pan;

  pan = ::panel_above(NULL);
  while (pan) {
Index: c++/cursespad.cc
Prereq:  1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
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@@ -36,7 +36,7 @@

#include <cursesw.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
  : NCursesWindow(),
@@ -221,7 +221,7 @@ void NCursesFramedPad::OnOperation(int pad_req)
{
  (void) pad_req;
-  NCursesWindow* W = Win();
+  const NCursesWindow* W = Win();
  NCursesWindow* W2 = getWindow();

  if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928+/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")
```

```
Soft_Label_Key_Set::Soft_Label_Key&
-  Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+  Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
-  Soft_Label_Key& K = (*this)[i];
+  const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
     Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@
void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-    Soft_Label_Key& K = (*this)[i];
+    const Soft_Label_Key& K = (*this)[i];
    if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
      Error("slk_set");
  }
Index: c++/cursslk.h
Prereq:  1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                  *
 *                                                                          *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                            *
 ****************************************************************************/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

  public:
    // Set the text of the Label
-    Soft_Label_Key& operator=(char *text);
+    Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq:  1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written               #
# authorization.                                                             #
##############################################################################
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
 +0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
```

```
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference.  It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
#  such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention.  It refers to the "ANSI" standard and
+#  https://wezfurlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago).  A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since.  Actually that
+# was the second revision; the fifth revision in 1991 is current.  The source
+#
 code refers to the second revision in a half-dozen places.  Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:
# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
 use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
 use=ecma+index, use=ecma+italics, use=ecma+strikeout,
 use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
 use=xterm+alt+title,
 use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
 use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
 use=xterm+tmux,
@@ -27644,4 +27655,8 @@
```

```
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
######## SHANTIH!  SHANTIH!  SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq:  1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff  /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
 * Replace a window covering the whole screen, i.e., newscr or curscr.
 */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
 WINDOW *target, FILE *source)
{
   WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS
Index: ncurses/base/new_pair.c
Prereq:  1.24
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@

#endif

-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")

#if NCURSES_EXT_COLORS

@@ -193,7 +193,7 @@
 * pair table.
 */
NCURSES_EXPORT(void)
```

```
-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)
+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)
{
   colorpair_t *last;

Index: ncurses/curses.priv.h
Prereq:  1.691
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
 ****************************************************************************/

/*
- * $Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp $
+ * $Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp $
 *
 * curses.priv.h
 *
@@ -2170,7 +2170,7 @@
extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);
extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);
extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);
-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));
+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *
EVENTLIST_2nd(_nc_eventlist *));
extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);
extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);
extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);
Index: ncurses/new_pair.h
Prereq:  1.14
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
+++
 ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void)     _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void)     _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
```

```
extern NCURSES_EXPORT(void)     _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq:  1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
 20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
 && PRESENT(set_attributes)) {
- bool found = FALSE;
 char *on = set_attribute_9(tp, 1);
 char *off = set_attribute_9(tp, 0);
 char *end = strdup(exit_attribute_mode);
 char *tmp;
- size_t i, j, k;

 TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
 TR(TRACE_DATABASE, ("sgr0       %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@
     FreeIfNeeded(off);
 } else if (similar_sgr(off, end)
     && !similar_sgr(off, on)) {
+    bool found = FALSE;
+    size_t i, j, k;
+
     TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
     result = off;
     /*
Index: ncurses/tty/lib_twait.c
Prereq:  1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
 16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2020,2023 Thomas E. Dickey                                *
```

```
+ * Copyright 2018-2023,2024 Thomas E. Dickey                          *
 * Copyright 1998-2015,2016 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
 * Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
 * descriptors.
 */
NCURSES_EXPORT(int)
-_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
 SCREEN *sp MAYBE_UNUSED,
        int mode MAYBE_UNUSED,
        int milliseconds,
        int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog
--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
 (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
```

```
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi
Prereq:  1.669
--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
 ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; $Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp $
+; $Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp $

; TODO add examples
; TODO bump ABI to 6
@@ -10,7 +10,7 @@
!define VERSION_MAJOR "6"
!define VERSION_MINOR "5"
!define VERSION_YYYY  "2024"
-!define VERSION_MMDD  "0928"
+!define VERSION_MMDD  "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI   "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
```

```
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncursest.spec
--- ncurses-6.5-20240928+/package/ncursest.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncursest.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncursest6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq:  1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -37,7 +37,7 @@
 ****************************************************************************/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
```

```
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
-    char *check = nl_langinfo(CODESET);
+    const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
 suits = uglyphs;
@@ -448,8 +448,8 @@
     !strcmp(check, "CP437") ||
     !strcmp(check,
 "IBM850") ||
     !strcmp(check, "CP850")) {
-     char *smacs = tigetstr("smacs");
-     char *smpch = tigetstr("smpch");
+     const char *smacs = tigetstr("smacs");
+     const char *smpch = tigetstr("smpch");
     /*
      * The ncurses library makes this check to decide whether to allow
      * the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq:  1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -35,7 +35,7 @@
 * v2.0 featuring strict ANSI/POSIX conformance, November 1993.
 * v2.1 with ncurses mouse support, September 1995
 *
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -147,7 +147,7 @@
   bool placed;  /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);
```

```
#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
   int l, xend, yend;

Index: test/cardfile.c
Prereq:  1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1999-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
 *
 * File format: text beginning in column 1 is a title; other text is content.
 */
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
   CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
```

```
{
   FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
 int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
   FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/*******************************************************************************/

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
   WINDOW *win;
   CARD *p;
Index: test/chgat.c
Prereq:  1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ********************************************************************************/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $
+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
 *
 * test-driver for chgat/wchgat/mvchgat/mvwchgat
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
 * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
```

```
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
     {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq:  1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
 *
 * demonstrate how to use printw with/without wrapping.
 */
@@ -212,7 +212,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
    WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
     sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
     {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq:  1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                                *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
   int result = 0;
   char *endp = 0;
-   size_t n;

   if ((result = (int) strtol(color,
 &endp, 0)) >= 0
 && (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
   } else if (!strcmp(color, "default")) {
 result = -1;
   } else {
+ size_t n;
 for (n = 0; n < SIZEOF(the_color_names); ++n) {
    if (!strcmp(the_color_names[n], color)) {
  result = (int) n;
Index: test/demo_defkey.c
Prereq:  1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
 *
 * Demonstrate the define_key() function.
 * Thomas Dickey - 2002/11/23
```

```
@@ -199,7 +199,7 @@
}

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

  really_define_key(win, string, code);
}
Index: test/demo_forms.c
Prereq:  1.63
--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
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 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
 2024/10/06 21:15:12 tom Exp $
 *
 * Demonstrate a variety of functions from the form library.
 * Thomas Dickey - 2003/4/26
@@ -148,7 +148,7 @@
}

static FIELD *
-make_label(const char *label, int frow, int fcol)
+make_label(NCURSES_CONST char *label, int frow, int fcol)
{
   FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);

@@ -242,7 +242,7 @@
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)

static FIELD *
-another_field(FORM *form, const FIELD *const field)
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
{
   FIELD **f = form_fields(form);
```

```
   FIELD *result = 0;
@@ -306,9 +306,9 @@
}

static void
-show_current_field(WINDOW *win, FORM *form)
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
{
-    FIELD *field;
+    NCURSES_CONST FIELD *field;
    int field_rows, field_cols, field_max;
    int currow, curcol;

@@ -325,7 +325,7 @@
    waddch(win, '\n');

    if ((field = current_field(form)) != 0) {
- FIELDTYPE *type;
+ NCURSES_CONST
 FIELDTYPE *type;
 int nbuf;

 wprintw(win, "Page %d%s, Field %d/%d%s:",
@@ -383,7 +383,7 @@

 waddstr(win, "\n");
 for (nbuf = 0; nbuf <= 2; ++nbuf) {
-     char *buffer;
+     NCURSES_CONST char *buffer;
     if ((buffer = field_buffer(field, nbuf)) != 0) {
  wprintw(win, "buffer %d:", nbuf);
  (void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-    const char *fname;
-    static const char *my_enum[] =
+    NCURSES_CONST char *fname;
+    static NCURSES_CONST char *my_enum[] =
    {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
- WINDOW *w;
```

```
+ NCURSES_CONST WINDOW *w;
 WINDOW *also;
 int finished = 0;

Index: test/demo_menus.c
Prereq:  1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
 *
 * Demonstrate a variety of functions from the menu library.
 * Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)
{
   return wGetchar(menu_win(m));
 }
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
   Trace(("called MenuHook my_menu_init"));
-    mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+    mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
   Trace(("called MenuHook my_menu_term"));
-    mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
```

```
+    mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
    wclrtoeol(status);
    wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
{
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@

/* force the given menu to appear */
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
    touchwin(menu_win(m));
    wrefresh(menu_win(m));
@@ -584,10 +584,10 @@
 * the others
 */
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
    ITEM **items;
-    ITEM *i;
+    NCURSES_CONST ITEM *i;
    bool changed = FALSE;

    items = menu_items(m);
@@ -613,7 +613,7 @@
    int result;

    for (ip = menu_items(mpTrace); *ip; ip++) {
```

```
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
 unsigned mask = td->mask;
 if (mask == 0)
    set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
    unsigned newtrace = 0;
    for (ip = menu_items(mpTrace); *ip; ip++) {
  if (item_value(*ip)) {
-     MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+     NCURSES_CONST
 MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
      newtrace |= td->mask;
  }
    }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
   WINDOW *top_win = menu_win(menu);
   WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)
+show_status(int ch, NCURSES_CONST MENU * menu)
{
   wmove(status, 0, 0);
   wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
 wrefresh(menu_win(last_menu));
 if (code == E_UNKNOWN_COMMAND
    || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
    MENU_DATA *td = (MENU_DATA *) item_userptr(item);
    td->func((int) td->mask);
 }
Index: test/demo_new_pair.c
Prereq:  1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
```

```
 19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ********************************************************************************/
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
 *
 * Demonstrate the alloc_pair() function.
 */
@@ -49,7 +49,7 @@
static bool
valid_cap(NCURSES_CONST char *name)
{
-    char *value = tigetstr(name);
+    const char *value = tigetstr(name);
    return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

Index: test/demo_panels.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2018-2020,2022 Thomas E. Dickey                                *
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                               *
 ********************************************************************************/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
 *
 * Demonstrate a variety of functions from the panel library.
 */
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);
```

```
static bool use_colors = FALSE;
static bool
 unboxed = FALSE;
@@ -301,7 +301,7 @@
 int code;
 int y0, x0;
 int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
 char also[80];

 getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
 PANEL *pan)
{
   int result = 0;
```

```
   int j;
Index: test/demo_termcap.c
Prereq:  1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
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 *                                                                          *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

   * to hold all of the strings extracted from the terminal entry.
    */
   char area[1024], *ap = area;
-    char *str;
+    NCURSES_CONST char *str;
   int num;

   if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@
}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
   char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
 if (x_opt && (my_blob == 0) && y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    if (term != 0
  && ((NUM_BOOLEANS(term) != BOOLCOUNT)
```

```
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -781,12 +781,12 @@
{
   int ch;
   int n;
-    char *name;
+    NCURSES_CONST char *name;
   bool a_opt = FALSE;
#if defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
   bool v_opt = FALSE;
#endif
-    char *input_name = 0;
+    NCURSES_CONST char *input_name = 0;

   int repeat;
   int r_opt = 1;
@@ -867,7
 +867,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
 }
@@ -894,7 +894,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_termcap(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_termcap(dumb);
    }
 }
Index: test/demo_terminfo.c
Prereq:  1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
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 *                                                                          *
                                    *
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@@ -30,7 +30,7 @@
```

```
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5  /* omit "colors", since CPU-time is a problem */
    static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
    unsigned n;
    NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
    if (x_opt && (my_blob == 0)) {
 if (y_opt) {
#if NCURSES_XNAMES
-     TERMTYPE *term = (TERMTYPE *) cur_term;
+     const TERMTYPE *term = (TERMTYPE *) cur_term;
     if (term != 0
  && ((NUM_BOOLEANS(term)
 != BOOLCOUNT)
      || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
    int ch;
    int n;
    int repeat;
-    char *name;
+    NCURSES_CONST char *name;
    int r_opt = 1;
-    char *input_name = 0;
+    const char *input_name = 0;

    while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
 switch (ch) {
```

```
@@ -891,7 +891,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
  }
@@ -918,7 +918,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_terminfo(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_terminfo(dumb);
    }
  }
Index: test/dots.c
Prereq:  1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 1999-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey <dickey@clark.net> 1999
 *
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
  tputs(s, 1, outc);
```

```
Index: test/dots_mvcur.c
Prereq:  1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2007-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2007
 *
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface, and mvcur.
 */
@@ -62,7 +62,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
 15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

static bool
```

```
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
   int result = tgetnum(cap);
-   char *value = env ? getenv(env) : 0;
+    const char *value = env ? getenv(env) : 0;
   if (value != 0 && *value != 0) {
 char *next = 0;
 long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
   double c;
   char buffer[1024];
   char area[1024];
-   char *name;
+    NCURSES_CONST char *name;
   size_t need;
   char *my_env;

Index: test/dup_field.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
 *
 * Demonstrate dup_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
```

```
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
 FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
    modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
    break;
 }

Index: test/filter.c
Prereq:  1.38
--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@
 -30,7 +30,7 @@
/*
 * Author:  Thomas E. Dickey 1998
 *
```

```
- * $Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp $
+ * $Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp $
 *
 * An example of the 'filter()' function in ncurses, this program prompts
 * for commands and executes them (like a command shell).  It illustrates
@@ -65,7 +65,7 @@
   if (clocked) {
 if (limit >= 3) {
     time_t now = time((time_t *) 0);
-    struct tm *my = localtime(&now);
+    const struct tm *my = localtime(&now);
     char buffer[80];
     int skip, y, x;
     int margin;
Index: test/form_driver_w.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 ****************************************************************************/

/*
- * $Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp $
+ * $Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp $
 *
 * Test form_driver_w (int, int, wchar_t), a wide char aware
 * replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
   {
 "Commands:",
 "  ^D,^Q,ESC           - quit program",
Index: test/gdc.c
Prereq:  1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
```

```
@@ -34,7 +34,7 @@
 * modified 10-18-89
 for curses (jrl)
 * 10-18-89 added signal handling
 *
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
 */

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
    time_t result;
    char c = 0;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;

    switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
    default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
    time_t now;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;
    long t, a;
    int i, j, s, k, ch;
    int count = 0;
@@ -293,7 +293,7 @@

    InitAndCatch({
 if (redirected) {
-     char *name = getenv("TERM");
+     NCURSES_CONST char *name = getenv("TERM");
     if (name == 0
  || newterm(name, ofp, ifp) == 0) {
  fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
     _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
     {
  char *d2 = buf + 10;
-  char *s2 = buf + 19;
+  NCURSES_CONST char *s2 = buf + 19;
   while ((*d2++ = *s2++) != '\0') ;
     }
     MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq:  1.13
```

```
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2010,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
 * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
 */
/*
      int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/inchs.c
Prereq:  1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of
 charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
 *
 * Author: Thomas E Dickey
```

```
 */
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/ins_wide.c
Prereq:  1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright
 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the wins_wstr() and wins_wch functions.
 * Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
    const char *showstate;

Index: test/insdelln.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
```

```
+ * Copyright 2019-2022,2024 Thomas E. Dickey                          *
 * Copyright 2008-2014,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ************************************************************************/
/*
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
  */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *table[] =
+    static NCURSES_CONST char *table[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                 *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                            *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.
      *
 *                                                                      *
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ****************************************************************************/
/*
- * $Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp $
```

```
+ * $Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the winsstr() and winsch functions.
 * Thomas Dickey - 2002/10/19
@@ -98,7 +98,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/knight.c
Prereq:  1.52
--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright
 2018-2021,2022 Thomas E. Dickey                                 *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                               *
 * Copyright 1998-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -34,7 +34,7 @@
 * Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995.  Mouse support
 * added September 20th 1995.
 *
- * $Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp $
+ * $Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp $
 */

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+       int row, int column)
{
   if (doneSize <= 1)
 return (TRUE);
Index: test/list_keys.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
```

```
 00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2016,2017 Free Software Foundation, Inc.                       *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
    if (x_opt) {
  for (k = 0; k < count; ++k) {
-     TERMTYPE *term;
+     const TERMTYPE *term;
     set_curterm(terms[k]);
     term = (TERMTYPE *) cur_term;
     total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
 widths1 = (int) strlen(modifier);

    for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;
 set_curterm(terms[k]);
 if ((value = termname()) == NULL)
     failed("termname");
Index: test/move_field.c
Prereq:  1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
 *
 * Demonstrate move_field().
```

```
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs
 *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

@@ -275,9 +275,9 @@

/* display a status message to show what's happening */
static void
```

```
-show_status(FORM *form, FIELD *field)
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
 *field)
{
-    WINDOW *sub = form_sub(form);
+    NCURSES_CONST WINDOW *sub = form_sub(form);
    int currow, curcol;

    getyx(stdscr, currow, curcol);
Index: test/movewindow.c
Prereq:  1.54
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2006-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp $
+ * $Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp $
 *
 * Demonstrate move functions for windows and derived windows from the curses
 * library.
@@ -135,7 +135,7 @@
 */
static PAIR *
selectcell(WINDOW *parent,
-    WINDOW *child,
+    NCURSES_CONST WINDOW *child,
    int uli, int ulj,
    int lri, int lrj,
    bool relative,
@@ -252,7 +252,7 @@
    int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
    int min_line = (parent == stdscr) ? LINE_MIN : 0;
    int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
-    PAIR *tmp;
+    NCURSES_CONST PAIR *tmp;
    bool result = FALSE;

    head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
```

```
}

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
   WINDOW *result = 0;
   int n = window2num(win);
@@ -435,7 +435,7 @@
 int max_col = top ? COL_MAX
 : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
   int pary, parx, maxy, maxx;

@@ -500,7 +500,7 @@
 int max_col = top ? COL_MAX : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 show_derwin(win);
Index: test/ncurses.c
Prereq:  1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024
 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -41,7 +41,7 @@
  Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
       Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

********************************************************************************/

@@ -273,7 +273,7 @@
    ++x;
    break;
 default:
-    if (!isprint(ch) || ch >= KEY_MIN) {
+    if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
  beep();
    } else if ((int) strlen(buffer) < limit) {
  int j;
@@ -928,7 +928,7 @@
  /* at least Solaris SVR4 curses breaks unctrl(128), etc. */
  c2 &= 0x7f;
#endif
-  if (isprint(c))
+  if (isprint(UChar(c)))
     (void)
  wprintw(win, "%c", UChar(c));
  else if (c2 != UChar(c))
     (void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
    chtype extras = (chtype) ac;

    if (UseColors) {
-  NCURSES_PAIRS_T pair = 0;
+  NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
     pair = 1;
     if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
 for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
    int row = grid_top + (i / per_row) - base_row;
    int col = (i % per_row + 1) * width;
-    NCURSES_PAIRS_T pair = i;

    if ((i / per_row) > row_limit)
  break;
@@ -2355,6 +2354,7 @@
    if (row >= 0 && move(row, col) != ERR) {
  NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
```

```
  NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+  NCURSES_PAIRS_T pair = i;

  init_pair(pair, fg, bg);
  attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
-    long i;
+    int i;

 int top = 0, width;
    int base_row = 0;
    int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
 /* show color names/numbers across the top */
 for (i = 0; i < per_row; i++) {
     show_color_name(top + 2,
-       ((int) i + 1) * width,
-       (int) i * zoom_size + MinColors,
+       (i + 1) * width,
+       i * zoom_size + MinColors,
        opt_wide,
        opt_zoom);
 }

 /* show a grid of colors, with color names/ numbers on the left */
 for (i = (base_row * per_row); i < pairs_max; i++) {
-    int row = grid_top + ((int) i / per_row) - base_row;
-    int col = ((int) i % per_row + 1) * width;
-    int pair = (int) i;
+    int row = grid_top + (i / per_row) - base_row;
+    int col = (i % per_row + 1) * width;
+    int pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
 char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
```

```
@@ -3317,7 +3317,7 @@
{
   int c, fmt = 1;
   char buf[9];
-   char *s;
+    NCURSES_CONST char *s;
   attr_t attr = A_NORMAL;
   unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

   *dst = *src;
   do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     attr |= (test_attrs & A_ALTCHARSET);
     setcchar(dst, test_wch, attr, pair, NULL);
 }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
   WINDOW *rwindow;
-   pair ul, lr, *tmp;
+    pair ul, lr;
+    NCURSES_CONST pair *tmp;

   move(0, 0);
   clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
 case CTRL('X'): /* resize window */
    if (current) {
-  pair *tmp, ul, lr;
+  NCURSES_CONST pair *tmp;
+  pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
 *pan)
{
   WINDOW *win = panel_window(pan);
```

```
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
   int count;
   int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
   ITEM **items;
-   ITEM *i, **p;
+    NCURSES_CONST ITEM *i;
+    ITEM **p;

   for (;;) {
 bool changed = FALSE;
@@ -6424,7 +6426,7 @@

   if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
 && nbuf > 0) {
- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
 size_t have = (source ? strlen(source) : 0) + 1;
 size_t need
 = 80 + have;
 char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
     _nc_STRNCPY(temp, source ? source : "", have + 1);
     len = (size_t) (char *) field_userptr(me);
     if (c <= KEY_MAX) {
-  if (isgraph(c) && (len + 1) < sizeof(temp)) {
+  if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
      temp[len++] = (char) c;
      temp[len] = 0;
      set_field_buffer(me, 1, temp);
```

```
@@ -6484,7 +6486,7 @@
}

static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
{
   /* *INDENT-OFF* */
   static const struct {
@@ -6658,7 +6660,7 @@
static
FIELDCHECK_CB(pw_field_check)
{
-    char *s = field_buffer(fld, 0);
+    NCURSES_CONST char *s = field_buffer(fld, 0);
   int n;

   for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
form_test(bool recur GCC_UNUSED)
{
   FORM *form;
-    FIELD *f[12], *secure;
+    FIELD *f[12];
+    NCURSES_CONST FIELD *secure;
   FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
    FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
   int c;
@@ -7176,7 +7179,7 @@
}

static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)
+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
   switch ((otCOPY) flavor) {
   case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
   bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
   bool xterm_colors = FALSE;
-    char *palette_file = 0;
+    NCURSES_CONST char *palette_file = 0;
#endif

   setlocale(LC_ALL, "");
Index: test/padview.c
Prereq:  1.22
```

```
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free
 Software Foundation, Inc.                         *
 *                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
 *
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
 */

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -213,7 +213,7 @@
    for (k = 0; my_vec[k]; ++k) {
 char *s;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =

    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -532,7 +532,7 @@
```

```
    beep();
    break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
    got_number = FALSE;
    value = 0;
 }
Index: test/parse_rgb.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                           *
                                  *
 ****************************************************************************/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
 *
 * Sample implementation of ncurses RGB extension from user_caps(5).
 */
@@ -49,7 +49,7 @@
 int bits;
 int pwr2;
 int r = 0, g = 0, b = 0;
- char *data;
+ const char *data;
 char ch;

 for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq:  1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2017,2018 Free Software Foundation, Inc.                       *
 *                                                                          *
```

```
                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
    _nc_STRCAT(full_name, filename, need);
    if (tries & 4) {
  char *t = s;
-  char *tc;
+  const char *tc;
  int num;
  char chr;
  int found = 0;
@@ -1374,8 +1374,8 @@
  int r, g, b, nocolor;
  float rf, gf, bf;
  unsigned check;
-  char *t;
-  char *s = t = strchr(buffer, '#');
+  char *s = strchr(buffer, '#');
+  const char *t = s;
  bool matched = FALSE;

  if (s != 0) {
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

static void
-dump_picture(PICS_HEAD
- * pics)
+dump_picture(const PICS_HEAD * pics)
{
   int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
 case 'x':
    {
-  char *s = optarg;
+  const char *s = optarg;
  while (*s) {
```

```
     switch (*s++) {
     case 'p':
Index: test/popup_msg.c
Prereq:  1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
 *
 * Show a multi-line message in a window which may extend beyond the screen.
 *
@@ -62,7 +62,7 @@
 * Display a temporary window, e.g., to display a help-message.
 */
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
 char *const *msg)
{
   int x0 = 4;
   int y0 = 2;
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
   (void) parent;
   (void) msg;
Index: test/popup_msg.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
```

```
 * Copyright 2017 Free Software Foundation, Inc.                        *
 *
                *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                        *
 ****************************************************************************/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq:  1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2020,2022 Thomas E. Dickey                            *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                            *
 * Copyright 2000-2013,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2000
 *
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-    char *base = string;
```

```
+    const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
 @@
 * authorization.                                        *
 ********************************************************************************/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
 */
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);

typedef struct DATA {
    int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)
{
    MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
    MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
```

```
   MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
   MvAddCh(drop->y - 1, drop->x, '-');
   MvAddStr(drop->y, drop->x - 1, "|.|");
@@ -144,7 +144,7 @@
 }

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, '-');
   MvAddStr(drop->y - 1, drop->x - 1, "/ \\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, ' ');
   MvAddStr(drop->y - 1, drop->x - 1, "   ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)
{
   data->func = func;
   data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
   {
 "Commands:",
 " q/Q        exit the program",
Index: test/redraw.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2006-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the redrawwin() and wredrawln() functions.
 * Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^Q/ESC/q   - quit",
Index: test/savescreen.c
Prereq:
  1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 2006-2017,2018 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
 *
 * Demonstrate save/restore functions
```

```
 from the curses library.
 * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
   int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
   cchar_t mycc;
#endif
-    char *filename = files[which];
+    NCURSES_CONST char *filename = files[which];
   bool dumped = FALSE;

   if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "You are now in the screen-editor, which allows you to make some",
 "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "You are now in the screen-loader, which allows you to view",
 "the dumped/restored screens.",
@@ -286,7 +286,7 @@
   bool replaying = FALSE;
   bool done = FALSE;
   char **files;
-
   char *fill_by = 0;
+    NCURSES_CONST char *fill_by = 0;
#if USE_WIDEC_SUPPORT
   cchar_t mycc;
   static const wchar_t mywc[2] =
```

```
Index: test/tclock.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
@@ -145,7 +145,7 @@
    int lastbeep = -1;
    bool odd = FALSE;
    time_t tim;
-   struct tm *t;
+   const struct tm *t;
    char szChar[20];
    char *text;
    short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq:  1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/******************************************************************************
 *  Author: Thomas E. Dickey                    1996-on                       *
 ******************************************************************************/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
 size_t need = strlen(base) + 80; \
 char *result = malloc(need); \
 if (result != NULL) { \
@@ -916,8 +916,8 @@
 * Workaround in case getcchar() returns a positive value when the source
 * string produces only a L'\0'.
 */
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
```

```
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
 NULL, NULL) > 0) { \
    wchar_t test_wch[CCHARW_MAX + 2]; \
    attr_t test_attrs; \
    NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddwchstr() and wadd_wch functions.
 * Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_addchstr.c
Prereq:  1.29
--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
```

```
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddchstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -169,7 +169,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addstr.c
Prereq:  1.20
--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -91,7 +91,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addwstr.c
```

```
Prereq:  1.22
---
 ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddwstr() and wadd_wch
 functions.
 * Thomas Dickey - 2009/9/12
@@ -82,7 +82,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_endwin.c
Prereq:  1.2
--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000
+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2023 Thomas E. Dickey                                          *
+ * Copyright 2023,2024 Thomas E. Dickey                                     *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
 */
```

```
#include <test.priv.h>

@@ -67,7 +67,7 @@
   int rc_e1 = OK;
   int rc_e2 = OK;
   int rc_e3 = OK;
-    SCREEN *sp = NULL;
+    const SCREEN *sp = NULL;
   bool opt_e = FALSE;
   bool opt_i = FALSE;
   bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq:  1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2011,2017
 Free Software Foundation, Inc.                   *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -69,7 +69,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
   {
```

```
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_getstr.c
Prereq:
  1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
  *
@@ -76,7 +76,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_instr.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
```

```
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -56,13 +56,13 @@
}

static
 void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -72,7 +72,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ********************************************************************************/
/*
- * $Id: test_inwstr.c,v
 1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -59,13 +59,13 @@
}
```

```
static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
   (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winwstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
Prereq:  1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
 * THE USE OR OTHER DEALINGS
 IN THE SOFTWARE.                        *
 ****************************************************************************/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $
 *
 * Author: Leonid S Usov
 *
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-    char *xtermcap;
+    const char *xtermcap;

   printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq:  1.15
```

```
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2008,2009 Free Software Foundation, Inc.                  *
 *                                                                          *
                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
+status_y(const WINDOW *stswin, int cell)
{
   return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
   return (15 * (cell / getmaxy(stswin)));
}
Index: test/test_sgr.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2015-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
                                                                            *
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@@ -30,7 +30,7 @@
```

```
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
 *
 * A simple demo of the sgr/sgr0 terminal capabilities.
 */
@@ -142,10 +142,10 @@
#define MASK_REV  (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
-    static const char sample[] = "abcdefghijklm";
-    static
 char params[] = "SURBDBIPA";
+    static NCURSES_CONST char sample[] = "abcdefghijklm";
+    static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
static void
brute_force(const char *name)
{
-    unsigned count;
-    char *my_sgr;
-    char *my_sgr0;
-    char *my_bold;
-    char *my_revs;
-    char *my_smso;
+    NCURSES_CONST char *my_sgr;
+    NCURSES_CONST char *my_sgr0;
+    NCURSES_CONST char *my_bold;
+    NCURSES_CONST char *my_revs;
+    NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
 unsigned ignore = 0;
 unsigned reason = 0;
 unsigned repeat = 0;
+ unsigned count;
 for (count = 0; count < MAXSGR; ++count) {
     values[count] = tparm(my_sgr,
```

```
     BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
   int ch;
-   char *name;
+   const char *name;

   while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
 switch (ch)
 {
@@ -369,7 +369,7 @@
   } else if ((name = getenv("TERM")) != 0) {
 brute_force(name);
   } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
 brute_force(dumb);
   }

Index: test/test_tparm.c
Prereq:  1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -29,7 +29,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
 tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
 *
 * Exercise tparm/tiparm, either for all possible capabilities with fixed
 * parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
```

```
   char *next = 0;
   long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
   char *use_strings[MAX_PARM];
   char *result = NULL;
@@ -527,7 +527,7 @@
    }
 } else {
    char *s = t_opt;
-    char *t;
+    NCURSES_CONST char *t;
    while ((t = strtok(s, ",")) != 0) {
  s = 0;
  if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
    len_caps = std_caps;
    if (cur_term) {
-  TERMTYPE *term =
 (TERMTYPE *) cur_term;
+  NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
  for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
     GrowArray(all_caps, max_caps, len_caps);
     GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
```

```
 *
 * Demonstrate the vidputs and vidattr functions.
 * Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/testcurs.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
 *  wrs(5/28/93) -- modified to be consistent (perform identically) with either
 *                  PDCurses or under Unix System V, R4
 *
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
 */

#include <test.priv.h>
@@ -245,7 +245,7 @@
 wclrtobot(win);
 if (c >= KEY_MIN)
     wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
    wprintw(win, "Key Pressed: %c", c);
 else
    wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));
@@ -748,8 +748,8 @@
 keypad(stdscr, TRUE);
 raw();
 key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-     if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+     if (islower(UChar(key)))
  key = toupper(key);
    for (n = 0; n < MAX_OPTIONS; ++n) {
  if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 *
 Copyright 1998-2002,2006 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
 * Date:  1997/03/17
 * From:  bayern@morpheus.cis.yale.edu
 *
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -85,7 +85,7 @@
   curses_trace(TRACE_UPDATE | TRACE_CALLS);
#endif
   while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
 if (isdigit(UChar(*token)))
    move(atoi(token), 0);
 else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq:  1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -52,7 +52,7 @@
 * scroll operation worked, and the refresh() code only had to do a
 * partial repaint.
 *
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
 */

#include <test.priv.h>
```

```
@@ -93,8 +93,7 @@

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     int len = wcwidth(test_wch[0]);
     result += (len > 0) ? len : 1;
     ++src;
@@ -186,12 +185,10 @@
      */
     {
  int j;
-  int width = 1;
+  int width;

  for (j = actual = 0; j < shift; ++j) {
-      int count;
-
-
+
    TEST_CCHAR(s + j, count, {
+      TEST_CCHAR(s + j, {
   width = wcwidth(test_wch[0]);
      }
      , {
@@ -294,7 +291,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -329,7 +326,7 @@
 char *s;
 int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
```

```
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
     {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -659,7 +656,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
```

Found in path(s):
* /ncurses-6-5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.582 scanelf 1.3.8-r1

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1.583 xz-libs 5.6.3-r0

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1.584 libgcc 14.2.0-r4

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

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Version 3, 29 June 2007

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Version 3.1, 31 March 2009

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1.585 utmps-libs 0.1.2.3-r2

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1.586 py3-packaging-pyc 24.2-r0

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1.587 libpanelw 6.5_p20241006-r3

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```
# ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#
# -------------------------------------------------------------------------
#
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#   https://invisible-island.net/archives/ncurses/
#   https://invisible-mirror.net/archives/ncurses/
#   https://ftp.gnu.org/gnu/ncurses/
#
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#   https://invisible-island.net/archives/ncurses/6.5
#   https://invisible-mirror.net/archives/ncurses/6.5
#
# -------------------------------------------------------------------------
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created  Sun Oct  6 23:44:01 UTC 2024
# -------------------------------------------------------------------------
# NEWS                        |   6 +++
# VERSION                     |   2 -
# c++/cursesf.cc              |   6 +--
# c++/cursesf.h
                |   6 +--
# c++/cursesm.cc              |   6 +--
# c++/cursesm.h               |   6 +--
# c++/cursesp.cc              |   6 +--
# c++/cursespad.cc            |   6 +--
# c++/cursslk.cc              |  12 +++++----
# c++/cursslk.h               |   6 +--
# dist.mk                     |   4 +-
# misc/terminfo.src           |  23 ++++++++++++--
# ncurses/base/lib_screen.c   |   4 +-
# ncurses/base/new_pair.c     |   4 +-
# ncurses/curses.priv.h       |   4 +-
# ncurses/new_pair.h          |   4 +-
# ncurses/tinfo/trim_sgr0.c   |   7 ++--
# ncurses/tty/lib_twait.c     |   6 +--
# package/debian-mingw/changelog   |   4 +-
# package/debian-mingw64/changelog |   4 +-
```

```
# package/debian/changelog        |    4 +-
# package/mingw-ncurses.nsi       |    4 +-
# package/mingw-ncurses.spec      |    2 -
# package/ncurses.spec            |    2 -
# package/ncursest.spec           |
   2 -
# test/blue.c                     |   10 +++---
# test/bs.c                       |    8 ++--
# test/cardfile.c                 |   12 +++++----
# test/chgat.c                    |    6 +--
# test/clip_printw.c              |    8 ++--
# test/color_name.h               |    6 +--
# test/demo_defkey.c              |    4 +-
# test/demo_forms.c               |   22 ++++++-------
# test/demo_menus.c               |   32 ++++++++++---------
# test/demo_new_pair.c            |    4 +-
# test/demo_panels.c              |   16 ++++-----
# test/demo_termcap.c             |   18 +++++-----
# test/demo_terminfo.c            |   18 +++++-----
# test/dots.c                     |    6 +--
# test/dots_mvcur.c               |    6 +--
# test/dots_termcap.c             |    8 ++--
# test/dup_field.c                |   14 ++++----
# test/filter.c                   |    6 +--
# test/form_driver_w.c            |    6 +--
# test/gdc.c                      |   10 +++---
# test/inch_wide.c
                |    6 +--
# test/inchs.c                    |    6 +--
# test/ins_wide.c                 |    6 +--
# test/insdelln.c                 |    8 ++--
# test/inserts.c                  |    6 +--
# test/knight.c                   |    7 ++--
# test/list_keys.c                |    8 ++--
# test/move_field.c               |   18 +++++-----
# test/movewindow.c               |   16 ++++-----
# test/ncurses.c                  |   61 ++++++++++++++++++++----------------
# test/padview.c                  |   12 +++++----
# test/parse_rgb.h                |    6 +--
# test/picsmap.c                  |   14 ++++----
# test/popup_msg.c                |    8 ++--
# test/popup_msg.h                |    6 +--
# test/railroad.c                 |    6 +--
# test/rain.c                     |   20 ++++++------
# test/redraw.c                   |    6 +--
# test/savescreen.c               |   14 ++++----
# test/tclock.c                   |    4 +-
# test/test.priv.h
```

```
               |  10 +++---
# test/test_add_wchstr.c          |   6 +--
# test/test_addchstr.c            |   6 +--
# test/test_addstr.c              |   6 +--
# test/test_addwstr.c             |   6 +--
# test/test_endwin.c              |   6 +--
# test/test_get_wstr.c            |   8 ++--
# test/test_getstr.c              |   8 ++--
# test/test_instr.c               |   8 ++--
# test/test_inwstr.c              |   8 ++--
# test/test_mouse.c               |   4 +-
# test/test_opaque.c              |   8 ++--
# test/test_sgr.c                 |  26 +++++++--------
# test/test_tparm.c               |  12 +++++----
# test/test_vidputs.c             |   6 +--
# test/testcurs.c                 |   8 ++--
# test/testscanw.c                |   6 +--
# test/view.c                     |  21 +++++-------
# 83 files changed, 392 insertions(+), 369 deletions(-)
# ------------------------------------------------------------------------------
Index: NEWS
Prereq:
  1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
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-- authorization.                                                            --
--------------------------------------------------------------------------------
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+-- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
--------------------------------------------------------------------------------

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+
20240928
 + improve error-message from infocmp when a terminal entry cannot be
   opened (patch by Branden Robinson).
Index:
 VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
```

```
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq:  1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2005,2011 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+  const NCursesApplication* S = NCursesApplication::getApplication();

  int n = count();
  if (n > 0) {
Index: c++/cursesf.h
Prereq:  1.39
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2012,2014 Free Software
 Foundation, Inc.                 *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                        *
 ****************************************************************************/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
+    const UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
    return uptr->m_user;
  }
Index: c++/cursesm.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2011,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void
NCursesMenu::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
```

```
   ::set_menu_fore(menu, S->foregrounds());
   ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq:  1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2012,2014 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+    const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
    return uptr->m_user;
  }
Index: c++/cursesp.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019,2020 Thomas E. Dickey                                     *
+ * Copyright 2019-2020,2024
 Thomas E. Dickey                                *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -35,7 +35,7 @@
#include "internal.h"
#include "cursesp.h"
```

```
-MODULE_ID("$Id: cursesp.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursesp.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
-  PANEL *pan;
+  const PANEL *pan;

   pan = ::panel_above(NULL);
   while (pan) {
Index: c++/cursespad.cc
Prereq:  1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
-
 * Copyright 2020 Thomas E. Dickey                                          *
+ * Copyright 2020,2024 Thomas E. Dickey                                     *
 * Copyright 1999-2012,2013 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@

#include <cursesw.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
   : NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
   (void) pad_req;
-  NCursesWindow* W = Win();
+  const NCursesWindow* W = Win();
   NCursesWindow* W2 = getWindow();

   if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
```

```
  1.22
--- ncurses-6.5-20240928+/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
-  Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+  Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
-  Soft_Label_Key& K = (*this)[i];
+  const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
     Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@
void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-    Soft_Label_Key& K = (*this)[i];
+    const Soft_Label_Key& K = (*this)[i];
    if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
      Error("slk_set");
  }
Index: c++/cursslk.h
Prereq:  1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
```

```
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey
          *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

  public:
    // Set the text of the Label
-    Soft_Label_Key& operator=(char *text);
+    Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq:  1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written               #
# authorization.                                                             #
##############################################################################
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
```

```
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
 +0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference.  It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
#  such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention.  It refers to the "ANSI" standard and
+#  https://wezfurlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago).  A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since.  Actually that
+# was the second revision; the fifth revision in 1991 is current.  The source
+#
 code refers to the second revision in a half-dozen places.  Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:
# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
```

```
 use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
 use=ecma+index, use=ecma+italics, use=ecma+strikeout,
 use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
 use=xterm+alt+title,
 use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
 use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
 use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
######## SHANTIH!  SHANTIH!  SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq:  1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff  /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
 * Replace a window covering the whole screen, i.e., newscr or curscr.
 */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
 WINDOW *target, FILE *source)
{
   WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS
Index: ncurses/base/new_pair.c
Prereq:  1.24
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@

#endif
```

```
-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")

#if NCURSES_EXT_COLORS

@@ -193,7 +193,7 @@
 * pair table.
 */
NCURSES_EXPORT(void)
-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)
+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)
{
   colorpair_t *last;

Index: ncurses/curses.priv.h
Prereq:  1.691
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
 ****************************************************************************/

/*
- * $Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp $
+ * $Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp $
 *
 * curses.priv.h
 *
@@ -2170,7 +2170,7 @@
extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);
extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);
extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);
-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));
+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *
EVENTLIST_2nd(_nc_eventlist *));
extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);
extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);
extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);
Index: ncurses/new_pair.h
Prereq:  1.14
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
+++
 ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
```

```
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void)     _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void)     _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void)     _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq:  1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
 20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
 && PRESENT(set_attributes)) {
- bool found = FALSE;
 char *on = set_attribute_9(tp, 1);
 char *off = set_attribute_9(tp, 0);
 char *end = strdup(exit_attribute_mode);
 char *tmp;
- size_t i, j, k;

 TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
 TR(TRACE_DATABASE, ("sgr0       %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@
     FreeIfNeeded(off);
 } else if (similar_sgr(off, end)
     && !similar_sgr(off, on)) {
+    bool found = FALSE;
+    size_t i, j, k;
+
     TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
```

```
    result = off;
    /*
Index: ncurses/tty/lib_twait.c
Prereq:  1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
 16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2020,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 1998-2015,2016 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
 * Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
 * descriptors.
 */
NCURSES_EXPORT(int)
-_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
 SCREEN *sp MAYBE_UNUSED,
        int mode MAYBE_UNUSED,
        int milliseconds,
        int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog
```

```
--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
 (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi
Prereq:  1.669
--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
 ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; $Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp $
+; $Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp $

; TODO add examples
; TODO bump ABI to 6
@@ -10,7 +10,7 @@
!define VERSION_MINOR "5"
!define VERSION_YYYY  "2024"
-!define VERSION_MMDD  "0928"
+!define VERSION_MMDD  "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI   "5"
```

```
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncursest.spec
--- ncurses-6.5-20240928+/package/ncursest.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncursest.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncursest6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq:  1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -37,7 +37,7 @@
 ****************************************************************************/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
-    char *check = nl_langinfo(CODESET);
+    const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
 suits = uglyphs;
@@ -448,8 +448,8 @@
     !strcmp(check, "CP437") ||
     !strcmp(check,
 "IBM850") ||
     !strcmp(check, "CP850")) {
-     char *smacs = tigetstr("smacs");
-     char *smpch = tigetstr("smpch");
+     const char *smacs = tigetstr("smacs");
+     const char *smpch = tigetstr("smpch");
     /*
      * The ncurses library makes this check to decide whether to allow
      * the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq:  1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -35,7 +35,7 @@
 * v2.0 featuring strict ANSI/POSIX conformance, November 1993.
 * v2.1 with ncurses mouse support, September 1995
 *
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
```

```
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -147,7 +147,7 @@
    bool placed;  /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
    int l, xend, yend;

Index: test/cardfile.c
Prereq:  1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1999-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
 *
 * File format: text beginning in column 1 is a title; other text is content.
 */
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
```

```
+find_card(const char *title)
{
   CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
   FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
 int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
   FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/****************************************************************************/

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
   WINDOW *win;
   CARD *p;
Index: test/chgat.c
Prereq:  1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $
+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
 *
 * test-driver for chgat/wchgat/mvchgat/mvwchgat
 */
@@ -160,7 +160,7 @@
}
```

```
static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
 * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq:  1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2008-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
 *
 * demonstrate how to use printw with/without wrapping.
 */
@@ -212,7 +212,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
    sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
```

```
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
     {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq:  1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****************************************************************************
- * Copyright 2018-2020,2021 Thomas E. Dickey                                 *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                                 *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.                   *
 *                                                                           *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                            *
 *****************************************************************************/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
    int result = 0;
    char *endp = 0;
-    size_t n;

    if ((result = (int) strtol(color,
 &endp, 0)) >= 0
 && (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
    } else if (!strcmp(color, "default")) {
 result = -1;
    } else {
+ size_t n;
 for (n = 0; n < SIZEOF(the_color_names); ++n) {
     if (!strcmp(the_color_names[n], color)) {
  result = (int) n;
Index: test/demo_defkey.c
Prereq:  1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
 *
 * Demonstrate the define_key() function.
 * Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

  really_define_key(win, string, code);
}
Index: test/demo_forms.c
Prereq:  1.63
--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
 2024/10/06 21:15:12 tom Exp $
 *
 * Demonstrate a variety of functions from the form library.
 * Thomas Dickey - 2003/4/26
@@ -148,7 +148,7 @@
}

static FIELD *
-make_label(const char *label, int frow, int fcol)
+make_label(NCURSES_CONST char *label, int frow, int fcol)
{
```

```
   FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);

@@ -242,7 +242,7 @@
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)

static FIELD *
-another_field(FORM *form, const FIELD *const field)
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
{
   FIELD **f = form_fields(form);
   FIELD *result = 0;
@@ -306,9 +306,9 @@
}

static void
-show_current_field(WINDOW *win, FORM *form)
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
{
-    FIELD *field;
+    NCURSES_CONST FIELD *field;
    int field_rows, field_cols, field_max;
    int currow, curcol;

@@ -325,7 +325,7 @@
    waddch(win, '\n');

    if ((field = current_field(form)) != 0) {
- FIELDTYPE *type;
+ NCURSES_CONST
 FIELDTYPE *type;
 int nbuf;

 wprintw(win, "Page %d%s, Field %d/%d%s:",
@@ -383,7 +383,7 @@

 waddstr(win, "\n");
 for (nbuf = 0; nbuf <= 2; ++nbuf) {
-     char *buffer;
+     NCURSES_CONST char *buffer;
     if ((buffer = field_buffer(field, nbuf)) != 0) {
  wprintw(win, "buffer %d:", nbuf);
  (void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-    const char *fname;
-    static const char *my_enum[] =
```

```
+    NCURSES_CONST char *fname;
+    static NCURSES_CONST char *my_enum[] =
     {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
- WINDOW *w;
+ NCURSES_CONST WINDOW *w;
  WINDOW *also;
  int finished = 0;

Index: test/demo_menus.c
Prereq:  1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
  * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
  *                                                                          *
  * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
  * authorization.                                                           *
  ****************************************************************************/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
  *
  * Demonstrate a variety of functions from the menu library.
  * Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)
{
    return wGetchar(menu_win(m));
  }
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
    Trace(("called MenuHook my_menu_init"));
```

```
-    mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+    mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
     wclrtoeol(status);
     wrefresh(status);
 }
@@ -223,7 +223,7 @@
 my_menu_term(MENU * menu)
 {
     Trace(("called MenuHook my_menu_term"));
-    mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+    mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
     wclrtoeol(status);
     wrefresh(status);
 }
@@ -231,7 +231,7 @@
 static void
 my_item_init(MENU * menu)
 {
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
     const char *name = item_name(item);

     Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
 static void
 my_item_term(MENU * menu)
 {
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
     const char *name = item_name(item);

     Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@

 /* force the given menu to appear */
 static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
 {
     touchwin(menu_win(m));
     wrefresh(menu_win(m));
@@ -584,10 +584,10 @@
  * the others
  */
 static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
 {
```

```
   ITEM **items;
-    ITEM *i;
+    NCURSES_CONST ITEM *i;
   bool changed = FALSE;

   items = menu_items(m);
@@ -613,7 +613,7 @@
   int result;

   for (ip = menu_items(mpTrace); *ip; ip++) {
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
  unsigned mask = td->mask;
  if (mask == 0)
     set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
     unsigned newtrace = 0;
     for (ip = menu_items(mpTrace); *ip; ip++) {
  if (item_value(*ip)) {
-      MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+      NCURSES_CONST
  MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
      newtrace |= td->mask;
  }
    }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
   WINDOW *top_win = menu_win(menu);
   WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)
+show_status(int ch, NCURSES_CONST MENU * menu)
{
   wmove(status, 0, 0);
   wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
 wrefresh(menu_win(last_menu));
 if (code == E_UNKNOWN_COMMAND
```

```
    || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
    MENU_DATA *td = (MENU_DATA *) item_userptr(item);
    td->func((int) td->mask);
 }
Index: test/demo_new_pair.c
Prereq:  1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
 19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
 *
 * Demonstrate the alloc_pair() function.
 */
@@ -49,7 +49,7 @@
static bool
valid_cap(NCURSES_CONST char *name)
{
-   char *value = tigetstr(name);
+    const char *value = tigetstr(name);
   return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

Index: test/demo_panels.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2018-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
 *
```

```
 * Demonstrate a variety of functions from the panel library.
 */
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
 unboxed = FALSE;
@@ -301,7 +301,7 @@
 int code;
 int y0, x0;
 int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
 char also[80];

 getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   int num = ((const char *) panel_userptr(pan))[1];
```

```
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
 PANEL *pan)
{
   int result = 0;
   int j;
Index: test/demo_termcap.c
Prereq:  1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2005-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

   * to hold all of the strings extracted from the terminal entry.
    */
   char area[1024], *ap = area;
-   char *str;
+    NCURSES_CONST char *str;
   int num;

   if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@
}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
   char buffer[1024];
```

```
@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
 if (x_opt && (my_blob == 0) && y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    if (term != 0
  && ((NUM_BOOLEANS(term) != BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -781,12 +781,12 @@
{
   int ch;
   int n;
-   char *name;
+   NCURSES_CONST char *name;
   bool a_opt = FALSE;
#if defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
   bool v_opt = FALSE;
#endif
-   char *input_name = 0;
+   NCURSES_CONST char *input_name = 0;

   int repeat;
   int r_opt = 1;
@@ -867,7
 +867,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
 }
@@ -894,7 +894,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_termcap(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_termcap(dumb);
    }
 }
Index: test/demo_terminfo.c
Prereq:  1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5  /* omit "colors", since CPU-time is a problem */
   static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
   unsigned n;
   NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
   if (x_opt && (my_blob == 0)) {
 if (y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    const TERMTYPE *term = (TERMTYPE *) cur_term;
    if (term != 0
  && ((NUM_BOOLEANS(term)
 != BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
   int ch;
   int n;
```

```
   int repeat;
-    char *name;
+    NCURSES_CONST char *name;
   int r_opt = 1;
-    char *input_name = 0;
+    const char *input_name = 0;

   while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
 switch (ch) {
@@ -891,7 +891,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
 }
@@ -918,7 +918,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_terminfo(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_terminfo(dumb);
    }
 }
Index: test/dots.c
Prereq:  1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 1999-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey <dickey@clark.net> 1999
 *
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
```

```
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq:  1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2007-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2007
 *
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface, and mvcur.
 */
@@ -62,7 +62,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
 15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
```

```
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
   int result = tgetnum(cap);
-   char *value = env ? getenv(env) : 0;
+    const char *value = env ? getenv(env) : 0;
   if (value != 0 && *value != 0) {
 char *next = 0;
 long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
   double c;
   char buffer[1024];
   char area[1024];
-   char *name;
+    NCURSES_CONST char *name;
   size_t need;
   char *my_env;

Index: test/dup_field.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
 *
 * Demonstrate dup_field().
 */
@@ -146,27 +146,27 @@
}
```

```
static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
 FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
    modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
    break;
 }

Index: test/filter.c
Prereq:  1.38
--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
```

```
+ * Copyright 2019-2022,2024 Thomas E. Dickey                          *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.              *
 *                                                                      *
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@@
 -30,7 +30,7 @@
/*
 * Author:  Thomas E. Dickey 1998
 *
- * $Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp $
+ * $Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp $
 *
 * An example of the 'filter()' function in ncurses, this program prompts
 * for commands and executes them (like a command shell).  It illustrates
@@ -65,7 +65,7 @@
   if (clocked) {
 if (limit >= 3) {
     time_t now = time((time_t *) 0);
-    struct tm *my = localtime(&now);
+    const struct tm *my = localtime(&now);
     char buffer[80];
     int skip, y, x;
     int margin;
Index: test/form_driver_w.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey
                      *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 ****************************************************************************/

/*
- * $Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp $
+ * $Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp $
 *
 * Test form_driver_w (int, int, wchar_t), a wide char aware
 * replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
```

```
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
     {
 "Commands:",
 "  ^D,^Q,ESC           - quit program",
Index: test/gdc.c
Prereq:  1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
 * modified 10-18-89
 for curses (jrl)
 * 10-18-89 added signal handling
 *
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
 */

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
    time_t result;
    char c = 0;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;

    switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
    default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
    time_t now;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;
    long t, a;
    int i, j, s, k, ch;
    int count = 0;
@@ -293,7 +293,7 @@

    InitAndCatch({
 if (redirected) {
-     char *name = getenv("TERM");
+     NCURSES_CONST char *name = getenv("TERM");
     if (name == 0
  || newterm(name, ofp, ifp) == 0) {
  fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
     _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
```

```
    {
  char *d2 = buf + 10;
-  char *s2 = buf + 19;
+  NCURSES_CONST char *s2 = buf + 19;
   while ((*d2++ = *s2++) != '\0') ;
    }
    MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2010,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
 * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
 */
/*
      int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/inchs.c
Prereq:  1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of
```

```
 charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
 *
 * Author: Thomas E Dickey
 */
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/ins_wide.c
Prereq:  1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright
 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the wins_wstr() and wins_wch functions.
 * Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
    const char *showstate;
```

```
Index: test/insdelln.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2008-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
  */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *table[] =
+    static NCURSES_CONST char *table[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
```

```
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.
      *
 *                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the winsstr() and winsch functions.
 * Thomas Dickey - 2002/10/19
@@ -98,7 +98,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/knight.c
Prereq:  1.52
--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright
 2018-2021,2022 Thomas E. Dickey                          *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                          *
 * Copyright 1998-2013,2017 Free Software Foundation, Inc.                  *
 *                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -34,7 +34,7 @@
 * Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995.  Mouse support
 * added September 20th 1995.
 *
- * $Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp $
+ * $Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp $
 */

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
```

```
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+       int row, int column)
{
   if (doneSize <= 1)
 return (TRUE);
Index: test/list_keys.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
 00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2016,2017 Free Software Foundation, Inc.                       *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
   if (x_opt) {
  for (k = 0; k < count; ++k) {
-     TERMTYPE *term;
+     const TERMTYPE *term;
     set_curterm(terms[k]);
     term = (TERMTYPE *) cur_term;
     total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
 widths1 = (int) strlen(modifier);

   for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;
 set_curterm(terms[k]);
 if ((value = termname()) == NULL)
     failed("termname");
Index: test/move_field.c
Prereq:  1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
```

```
@@ -26,7 +26,7 @@
 * authorization.                                             *
 ****************************************************************************/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
 *
 * Demonstrate move_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs
 *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
    modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
```

```
+   && isprint(UChar(ch)));
    break;
 }

@@ -275,9 +275,9 @@

/* display a status message to show what's happening */
static void
-show_status(FORM *form, FIELD *field)
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
 *field)
{
-    WINDOW *sub = form_sub(form);
+    NCURSES_CONST WINDOW *sub = form_sub(form);
    int currow, curcol;

    getyx(stdscr, currow, curcol);
Index: test/movewindow.c
Prereq:  1.54
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
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 * Copyright 2006-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp $
+ * $Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp $
 *
 * Demonstrate move functions for windows and derived windows from the curses
 * library.
@@ -135,7 +135,7 @@
 */
static PAIR *
selectcell(WINDOW *parent,
-    WINDOW *child,
+    NCURSES_CONST WINDOW *child,
    int uli, int ulj,
    int lri, int lrj,
    bool relative,
@@ -252,7 +252,7 @@
    int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
```

```
   int min_line = (parent == stdscr) ? LINE_MIN : 0;
   int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
-    PAIR *tmp;
+    NCURSES_CONST PAIR *tmp;
    bool result = FALSE;

    head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
}

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
    WINDOW *result = 0;
    int n = window2num(win);
@@ -435,7 +435,7 @@
 int max_col = top ? COL_MAX
 : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
    int pary, parx, maxy, maxx;

@@ -500,7 +500,7 @@
 int max_col = top ? COL_MAX : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 show_derwin(win);
Index: test/ncurses.c
Prereq:  1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024
 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -41,7 +41,7 @@
   Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
         Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

****************************************************************************/

@@ -273,7 +273,7 @@
     ++x;
     break;
 default:
-    if (!isprint(ch) || ch >= KEY_MIN) {
+    if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
  beep();
     } else if ((int) strlen(buffer) < limit) {
  int j;
@@ -928,7 +928,7 @@
  /* at least Solaris SVR4 curses breaks unctrl(128), etc. */
  c2 &= 0x7f;
#endif
-  if (isprint(c))
+  if (isprint(UChar(c)))
      (void)
 wprintw(win, "%c", UChar(c));
  else if (c2 != UChar(c))
     (void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
     chtype extras = (chtype) ac;

     if (UseColors) {
-  NCURSES_PAIRS_T pair = 0;
+  NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
      pair = 1;
      if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
 for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
     int row = grid_top + (i / per_row) - base_row;
```

```
    int col = (i % per_row + 1) * width;
-    NCURSES_PAIRS_T pair = i;

    if ((i / per_row) > row_limit)
  break;
@@ -2355,6 +2354,7 @@
    if (row >= 0 && move(row, col) != ERR) {
  NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
  NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+  NCURSES_PAIRS_T pair = i;

  init_pair(pair, fg, bg);
  attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
-    long i;
+    int i;

 int top = 0, width;
    int base_row = 0;
    int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
 /* show color names/numbers across the top */
 for (i = 0; i < per_row; i++) {
    show_color_name(top + 2,
-       ((int) i + 1) * width,
-       (int) i * zoom_size + MinColors,
+       (i + 1) * width,
+       i * zoom_size + MinColors,
       opt_wide,
       opt_zoom);
 }

 /* show a grid of colors, with color names/ numbers on the left */
 for (i = (base_row * per_row); i < pairs_max; i++) {
-    int row = grid_top + ((int) i / per_row) - base_row;
-    int col = ((int) i % per_row + 1) * width;
-    int pair = (int) i;
+    int row = grid_top + (i / per_row) - base_row;
+    int col = (i % per_row + 1) * width;
+    int pair = i;

    if ((i / per_row) > row_limit)
  break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)
```

```
static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
 char *palette_file)
{
   NCURSES_PAIRS_T cp;
   all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
   int c, fmt = 1;
   char buf[9];
-   char *s;
+    NCURSES_CONST char *s;
   attr_t attr = A_NORMAL;
   unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

   *dst = *src;
   do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     attr |= (test_attrs & A_ALTCHARSET);
     setcchar(dst, test_wch, attr, pair, NULL);
 }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
   WINDOW *rwindow;
-   pair ul, lr, *tmp;
+    pair ul, lr;
+    NCURSES_CONST pair *tmp;

   move(0, 0);
   clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
 case CTRL('X'): /* resize window */
    if (current) {
-  pair *tmp, ul, lr;
+  NCURSES_CONST pair *tmp;
+  pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
```

```
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
 *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
   int count;
   int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
   ITEM **items;
-   ITEM *i, **p;
+    NCURSES_CONST ITEM *i;
+    ITEM **p;

   for (;;) {
 bool changed = FALSE;
@@ -6424,7 +6426,7 @@

   if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
 && nbuf > 0) {
- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
 size_t have = (source ? strlen(source) : 0) + 1;
 size_t need
 = 80 + have;
 char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
```

```
     _nc_STRNCPY(temp, source ? source : "", have + 1);
     len = (size_t) (char *) field_userptr(me);
     if (c <= KEY_MAX) {
-  if (isgraph(c) && (len + 1) < sizeof(temp)) {
+  if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
      temp[len++] = (char) c;
      temp[len] = 0;
      set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
 }

 static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
 {
    /* *INDENT-OFF* */
    static const struct {
@@ -6658,7 +6660,7 @@
 static
 FIELDCHECK_CB(pw_field_check)
 {
-    char *s = field_buffer(fld, 0);
+    NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
 form_test(bool recur GCC_UNUSED)
 {
    FORM *form;
-    FIELD *f[12], *secure;
+    FIELD *f[12];
+    NCURSES_CONST FIELD *secure;
    FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
     FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
    int c;
@@ -7176,7 +7179,7 @@
 }

 static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)
+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
 {
    switch ((otCOPY) flavor) {
    case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
    bool monochrome = FALSE;
 #if HAVE_COLOR_CONTENT
```

```
   bool xterm_colors = FALSE;
-    char *palette_file = 0;
+    NCURSES_CONST char *palette_file = 0;
#endif

   setlocale(LC_ALL, "");
Index: test/padview.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
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 * Copyright 2017 Free
 Software Foundation, Inc.                          *
 *                                                          *
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@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
 *
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
 */

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
   if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -213,7 +213,7 @@
   for (k = 0; my_vec[k]; ++k) {
 char *s;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
```

```
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =

    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -532,7 +532,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
Index: test/parse_rgb.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
 *
 * Sample implementation of ncurses RGB extension from user_caps(5).
 */
@@ -49,7 +49,7 @@
 int bits;
 int pwr2;
 int r = 0, g = 0, b = 0;
- char *data;
+ const char *data;
 char ch;

 for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq:  1.149
```

```
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
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 *                                                                          *
                                                *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
    _nc_STRCAT(full_name, filename, need);
    if (tries & 4) {
  char *t = s;
-  char *tc;
+  const char *tc;
  int num;
  char chr;
  int found = 0;
@@ -1374,8 +1374,8 @@
  int r, g, b, nocolor;
  float rf, gf, bf;
  unsigned check;
-  char *t;
-  char *s = t = strchr(buffer, '#');
+  char *s = strchr(buffer, '#');
+  const char *t = s;
  bool matched = FALSE;

  if (s != 0) {
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

static void
-dump_picture(PICS_HEAD
- * pics)
+dump_picture(const PICS_HEAD * pics)
{
   int y, x;
```

```
@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
 case 'x':
     {
-  char *s = optarg;
+  const char *s = optarg;
   while (*s) {
      switch (*s++) {
      case 'p':
Index: test/popup_msg.c
Prereq:  1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
 *
 * Show a multi-line message in a window which may extend beyond the screen.
 *
@@ -62,7 +62,7 @@
 * Display a temporary window, e.g., to display a help-message.
 */
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
 char *const *msg)
{
    int x0 = 4;
    int y0 = 2;
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
    (void) parent;
    (void) msg;
```

```
Index: test/popup_msg.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free Software Foundation, Inc.                            *
 *                                                                          *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq:  1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
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 *                                                                          *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2000
 *
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
```

```
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-    char *base = string;
+    const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
 @@
 * authorization.                                        *
 ********************************************************************************/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
 */
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);

typedef struct DATA {
    int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)
{
    MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
```

```
{
   MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
   MvAddCh(drop->y - 1, drop->x, '-');
   MvAddStr(drop->y, drop->x - 1, "|.|");
@@ -144,7 +144,7 @@
 }

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, '-');
   MvAddStr(drop->y - 1, drop->x - 1, "/ \\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, ' ');
   MvAddStr(drop->y - 1, drop->x - 1, "   ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)
{
   data->func = func;
   data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
```

```
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
     {
 "Commands:",
 " q/Q        exit the program",
Index: test/redraw.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the redrawwin() and wredrawln() functions.
 * Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
     {
 "Commands:",
 "  ^Q/ESC/q   - quit",
Index: test/savescreen.c
Prereq:
  1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2021,2022 Thomas E. Dickey                                *
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 *                                                                          *
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@@ -27,7 +27,7 @@
```

```
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
 *
 * Demonstrate save/restore functions
 from the curses library.
 * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
   int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
   cchar_t mycc;
#endif
-   char *filename = files[which];
+    NCURSES_CONST char *filename = files[which];
   bool dumped = FALSE;

   if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-   static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "You are now in the screen-editor, which allows you to make some",
 "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-   static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "You are now in the screen-loader, which allows you to view",
 "the dumped/restored screens.",
@@ -286,7 +286,7 @@
   bool replaying = FALSE;
   bool done = FALSE;
```

```
   char **files;
-
   char *fill_by = 0;
+    NCURSES_CONST char *fill_by = 0;
#if USE_WIDEC_SUPPORT
   cchar_t mycc;
   static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
@@ -145,7 +145,7 @@
   int lastbeep = -1;
   bool odd = FALSE;
   time_t tim;
-   struct tm *t;
+    const struct tm *t;
   char szChar[20];
   char *text;
   short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq:  1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/****************************************************************************
 *  Author: Thomas E. Dickey                    1996-on                 *
 ****************************************************************************/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
 size_t need = strlen(base) + 80; \
```

```
 char *result = malloc(need); \
 if (result != NULL) { \
@@ -916,8 +916,8 @@
 * Workaround in case getcchar() returns a positive value when the source
 * string produces only a L'\0'.
 */
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
  NULL, NULL) > 0) { \
     wchar_t test_wch[CCHARW_MAX + 2]; \
     attr_t test_attrs; \
     NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddwchstr() and wadd_wch functions.
 * Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_addchstr.c
Prereq:  1.29
--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
```

```
/****************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddchstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -169,7 +169,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addstr.c
Prereq:  1.20
--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -91,7 +91,7 @@
}
```

```
static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addwstr.c
Prereq:  1.22
---
 ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddwstr() and wadd_wch
 functions.
 * Thomas Dickey - 2009/9/12
@@ -82,7 +82,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_endwin.c
Prereq:  1.2
--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000
+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2023 Thomas E. Dickey                                          *
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 *                                                                          *
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 * copy of this software and associated documentation files (the            *
```

```
@@ -26,7 +26,7 @@
  * authorization.                                           *
 ****************************************************************************/
 /*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
  */
 #include <test.priv.h>

@@ -67,7 +67,7 @@
    int rc_e1 = OK;
    int rc_e2 = OK;
    int rc_e3 = OK;
-   SCREEN *sp = NULL;
+   const SCREEN *sp = NULL;
    bool opt_e = FALSE;
    bool opt_i = FALSE;
    bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq:  1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
 /****************************************************************************
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+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
  * Copyright 2007-2011,2017
  Free Software Foundation, Inc.                   *
  *                                                                          *
  * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
  * authorization.                                           *
 ****************************************************************************/
 /*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
  *
  * Author: Thomas E Dickey
  *
@@ -69,7 +69,7 @@
 }

 static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
 {
    int result = getmaxx(txtwin) - getcurx(txtwin);
    return (result > 0) ? result : 0;
```

```
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
     {
  "Commands:",
  "  q,^Q,ESC       - quit this program",
Index: test/test_getstr.c
Prereq:
  1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
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  *                                                                          *
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@@ -27,7 +27,7 @@
  * authorization.                                                           *
  ****************************************************************************/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
  *
  * Author: Thomas E Dickey
  *
@@ -76,7 +76,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
    int result = getmaxx(txtwin) - getcurx(txtwin);
    return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
     {
  "Commands:",
  "  q,^Q,ESC       - quit this program",
```

```
Index: test/test_instr.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -56,13 +56,13 @@
}

static
 void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -72,7 +72,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "Show file contents and a viewport from the variants of winstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: test_inwstr.c,v
```

```
 1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
   (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winwstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
Prereq:  1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
 * THE USE OR OTHER DEALINGS
 IN THE SOFTWARE.                        *
 ****************************************************************************/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $
 *
 * Author: Leonid S Usov
 *
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
```

```
-    char *xtermcap;
+    const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
+status_y(const WINDOW *stswin, int cell)
{
    return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
    return (15 * (cell / getmaxy(stswin)));
}
Index: test/test_sgr.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
```

```
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
 *
 * A simple demo of the sgr/sgr0 terminal capabilities.
 */
@@ -142,10 +142,10 @@
#define MASK_REV  (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
-    static const char sample[] = "abcdefghijklm";
-    static
 char params[] = "SURBDBIPA";
+    static NCURSES_CONST char sample[] = "abcdefghijklm";
+    static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
static void
brute_force(const char *name)
{
-    unsigned count;
-    char *my_sgr;
-    char *my_sgr0;
-    char *my_bold;
-    char *my_revs;
-    char *my_smso;
+    NCURSES_CONST char *my_sgr;
+    NCURSES_CONST char *my_sgr0;
+    NCURSES_CONST char *my_bold;
+    NCURSES_CONST char *my_revs;
+    NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
```

```
@@ -219,6 +218,7 @@
 unsigned ignore = 0;
 unsigned reason = 0;
 unsigned repeat = 0;
+ unsigned count;
 for (count = 0; count < MAXSGR; ++count) {
     values[count] = tparm(my_sgr,
      BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-    char *name;
+    const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
 switch (ch)
 {
@@ -369,7 +369,7 @@
    } else if ((name = getenv("TERM")) != 0) {
 brute_force(name);
    } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
 brute_force(dumb);
    }

Index: test/test_tparm.c
Prereq:  1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 * copy of this software and associated documentation files (the            *
@@ -29,7 +29,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
 tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
 *
 * Exercise tparm/tiparm, either for all possible capabilities with fixed
 * parameters, or one capability with specific combinations of parameters.
```

```
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
   char *next = 0;
   long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
   char *use_strings[MAX_PARM];
   char *result = NULL;
@@ -527,7 +527,7 @@
    }
 } else {
    char *s = t_opt;
-    char *t;
+    NCURSES_CONST char *t;
    while ((t = strtok(s, ",")) != 0) {
  s = 0;
  if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
    len_caps = std_caps;
    if (cur_term) {
-  TERMTYPE *term =
  (TERMTYPE *) cur_term;
+  NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
  for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
     GrowArray(all_caps, max_caps, len_caps);
     GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
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```

```
@@ -27,7 +27,7 @@
 * authorization.
                 *
 ******************************************************************************/
/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the vidputs and vidattr functions.
 * Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/testcurs.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
 *  wrs(5/28/93) -- modified to be consistent (perform identically) with either
 *                  PDCurses or under Unix System V, R4
 *
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
 */

#include <test.priv.h>
@@ -245,7 +245,7 @@
 wclrtobot(win);
 if (c >= KEY_MIN)
     wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
    wprintw(win, "Key Pressed: %c", c);
 else
    wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));
@@ -748,8 +748,8 @@
 keypad(stdscr, TRUE);
 raw();
 key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-    if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
```

```
+     if (islower(UChar(key)))
  key = toupper(key);
     for (n = 0; n < MAX_OPTIONS; ++n) {
  if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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@@ -30,7 +30,7 @@
  * Date:  1997/03/17
  * From:  bayern@morpheus.cis.yale.edu
  *
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
  */
#include <test.priv.h>

@@ -85,7 +85,7 @@
    curses_trace(TRACE_UPDATE | TRACE_CALLS);
#endif
    while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
  if (isdigit(UChar(*token)))
     move(atoi(token), 0);
  else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq:  1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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@@ -52,7 +52,7 @@
  * scroll operation worked, and the refresh() code only had to do a
```

```
 * partial repaint.
 *
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
 */

#include <test.priv.h>
@@ -93,8 +93,7 @@

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     int len = wcwidth(test_wch[0]);
     result += (len > 0) ? len : 1;
     ++src;
@@ -186,12 +185,10 @@
      */
     {
  int j;
-  int width = 1;
+  int width;

  for (j = actual = 0; j < shift; ++j) {
-      int count;
-
-
+
    TEST_CCHAR(s + j, count, {
+      TEST_CCHAR(s + j, {
   width = wcwidth(test_wch[0]);
      }
      , {
@@ -294,7 +291,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -329,7 +326,7 @@
 char *s;
 int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
```

```
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -659,7 +656,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
```

Found in path(s):
* /ncurses-6-5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.588 py3-pip-pyc 24.3.1-r0

1.588.1 Available under license :

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 (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related

Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
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2.1	2.0+1.6.1	2001	PSF	no

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2.1.1	2.1+2.0.1	2001	PSF	yes
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2.2 and above	2.1.1	2001-now	PSF	yes

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

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1.590 skalibs-libs 2.14.3.0-r0

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1.591 py3-parsing-pyc 3.1.4-r0

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1.597 libproc2 4.0.4-r2

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1.602 annotations 13.0

1.602.1 Available under license :

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*/

Found in path(s):
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/Contract.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Flow.java
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Found in path(s):
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/Nullable.java
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/Nls.java
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/PropertyKey.java

* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/NonNls.java
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Found in path(s):
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Pattern.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/PrintFormat.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/RegExp.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Subst.java
*
 /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Identifier.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Language.java
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Found in path(s):
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/NotNull.java
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/TestOnly.java

* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/MagicConstant.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/JdkConstants.java

1.603 prometheus-metrics-shaded-protobuf 1.2.1

1.603.1 Available under license :

Apache-2.0

1.604 prometheus-metrics-tracer-common 1.2.1

1.604.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.tracer.common
Bnd-LastModified: 1712263752680
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Common Module for Prometheus integrations with distr
ibuted tracing libraries.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Tracer Common
Bundle-SymbolicName: io.prometheus.metrics-tracer-common
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.tracer.common;version="1.2.1"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /prometheus-metrics-tracer-common-1-2-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /prometheus-metrics-tracer-common-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-tracer-common/pom.xml

1.605 prometheus-metrics-exposition-formats 1.2.1

1.605.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.expositionformats
Bnd-LastModified: 1712263813678
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Prometheus exposition formats.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Exposition Formats
Bundle-SymbolicName: io.prometheus.metrics-exposition-formats
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.expositionformats;uses:="io.promet
heus.metrics.config,io.prometheus.metrics.expositionformats.generated.c
om_google_protobuf_3_25_3,io.prometheus.metrics.model.snapshots";versio
n="1.2.1",io.prometheus.metrics.expositionformats.generated.com_google_
protobuf_3_25_3;uses:="io.prometheus.metrics.shaded.com_google_protobuf
_3_25_3";version="1.2.1"
Import-Package: io.prometheus.metrics.config;version="[1.2,2)",io.promet
 heus.metrics.model.snapshots;version="[1.2,2)",io.prometheus.metrics.sh
aded.com_google_protobuf_3_25_3
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /prometheus-metrics-exposition-formats-1-2-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /prometheus-metrics-exposition-formats-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-exposition-formats/pom.xml

1.606 prometheus-metrics-config 1.2.1

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Manifest-Version: 1.0

Automatic-Module-Name: io.prometheus.metrics.config
Bnd-LastModified: 1712263740818
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Configuration for Prometheus metrics and exposition
formats.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Config
Bundle-SymbolicName: io.prometheus.metrics-config
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.config;version="1.2.1"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /prometheus-metrics-config-1-2-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /prometheus-metrics-config-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-config/pom.xml

1.607 prometheus-metrics-model 1.2.1

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Found in path(s):
* /prometheus-metrics-model-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-model/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.model
Bnd-LastModified: 1712263731026
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Data model for read-only immutable Prometheus metric
s snapshots.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Model
Bundle-SymbolicName: io.prometheus.metrics-model
Bundle-Version: 1.2.1

Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.model.snapshots;version="1.2.1",io
.prometheus.metrics.model.registry;uses:="io.prometheus.metrics.model.s
napshots";version="1.2.1"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /prometheus-metrics-model-1-2-1-jar/META-INF/MANIFEST.MF

1.608 prometheus-metrics-core 1.2.1

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Found in path(s):
* /prometheus-metrics-core-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-core/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.core
Bnd-LastModified: 1712263831437
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Core Prometheus metric types
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Core
Bundle-SymbolicName: io.prometheus.metrics-core
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.core.metrics;uses:="io.prometheus.
metrics.config,io.prometheus.metrics.core.datapoints,io.prometheus.metr
ics.model.registry,io.prometheus.metrics.model.snapshots";version="1.2.
1",io.prometheus.metrics.core.datapoints;uses:="io.prometheus.metrics.m
odel.snapshots";version="1.2.1",io.prometheus.metrics.core.util;version
="1.2.1",io.prometheus.metrics.core.exemplars;uses:="io.prometheus.metr
ics.config,io.prometheus.metrics.model.snapshots,io.prometheus.metrics.
 tracer.common";version="1.2.1"
Import-Package: io.prometheus.metrics.config;version="[1.2,2)",io.promet
heus.metrics.model.registry;version="[1.2,2)",io.prometheus.metrics.mod
el.snapshots;version="[1.2,2)",io.prometheus.metrics.tracer.common;vers
ion="[1.2,2)",io.prometheus.metrics.tracer.initializer;version="[1.2,2)
"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
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1.609 hdrhistogram 2.2.2

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1.610 libunistring 1.3-r0

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1.611 musl 1.2.5-r9

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1.612 jinja 3.1.4

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1.614 error_prone_annotations 2.28.0

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Found in path(s):
* /error-prone-annotations-2-28-0-3-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Created-By: Maven JAR Plugin 3.2.2
Build-Jdk-Spec: 17
Multi-Release: true
Bundle-Description: Error Prone is a static analysis tool for Java that
catches common programming mistakes at compile-time.
Bundle-DocURL: https://errorprone.info/error_prone_annotations
Bundle-License: "Apache 2.0";link="http://www.apache.org/licenses/LICENS
E-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: error-prone annotations

Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annot
ations",connection="scm:git:https://github.com/google/error-prone.git/e
rror_prone_annotations",developer-connection="scm:git:git@github.com:go
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l.element";version="2.28.0",com.google.errorprone.annotations.concurren
t;version="2.28.0"
Import-Package: javax.lang.model.element
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):
* /error-prone-annotations-2-28-0-3-jar/META-INF/MANIFEST.MF

1.615 packaging 24.1

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*/
```

Found in path(s):
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/DriverDataSource.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/FastList.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyResultSet.java

* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
*
/hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/HikariConfig.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyFactory.java
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* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/PoolStats.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/ClockSource.java

1.620 jackson-module-parameter-names 2.17.3

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1.621 byte-buddy 1.14.19

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1.622 plexus-utils 3.3.1

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1.623 distlib 0.3.9

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes

2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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distlib has started off using some of the code from distutil2.

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1.636 jackson-datatype-jdk8 2.17.3

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* /simpleclient-servlet-0-16-0-sources-3-jar/META-INF/maven/io.prometheus/simpleclient_servlet/pom.xml

1.641 jetty-ee10-servlet 12.0.16

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* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletCoreResponse.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletContextHandler.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/listener/ContainerInitializer.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/Invoker.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletApiResponse.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ErrorHandler.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ManagedAttributeListener.java
*
 /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/HttpOutput.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/DecoratingListener.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/security/ConstraintAware.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletApiRequest.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ListenerHolder.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/DebugListener.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ResponseWriter.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletHandler.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/security/authentication/LoginCallback.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/CrossContextDispatcher.java
*
 /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/AsyncContentProducer.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ErrorPageErrorHandler.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/Source.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/module-info.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/JspPropertyGroupServlet.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/jmx/HolderMBean.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/listener/IntrospectorCleaner.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletCoreRequest.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletPathMapping.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/SessionHandler.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletHolder.java
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 /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/security/ConstraintMapping.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletMultiPartFormData.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/Dispatcher.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/Holder.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/util/ServletOutputStreamWrapper.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/jmx/package-info.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/PushBuilderImpl.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletMapping.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/jmx/FilterMappingMBean.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/FilterHolder.java

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/jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletChannelState.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/NoJspServlet.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletChannel.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/listener/package-info.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletContextResponse.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/AsyncContextState.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/EagerFormHandler.java
* /jetty-ee10-servlet-12-0-16-sources-1-
jar/org/eclipse/jetty/ee10/servlet/security/authentication/LoginCallbackImpl.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/AsyncContextEvent.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/jmx/ServletMappingMBean.java
*
/jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/package-info.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletRequestHttpWrapper.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ResourceServlet.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/DefaultServlet.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/QuietServletException.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletContainerInitializerHolder.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletResponseHttpWrapper.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/HttpInput.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/FilterMapping.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/CrossContextServletContext.java
*
/jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletContextRequest.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/BaseHolder.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ServletTester.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/ContentProducer.java
* /jetty-ee10-servlet-12-0-16-sources-1-jar/org/eclipse/jetty/ee10/servlet/BlockingContentProducer.java

1.642 jetty-util 12.0.16

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* @(#)UnixCrypt.java 0.9 96/11/25
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/**
* Ensures serial invocation of submitted tasks.
*
* The {@link InvocationType} of the {@link Runnable} returned from this class is
* always {@link InvocationType#BLOCKING} since a blocking task may be added to the queue
* at any time.
*
* This class was inspired by the public domain class
* NonBlockingMutexExecutor
*
*/

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* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/preventers/package-info.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/resource/MountedPathResourceFactory.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/resource/PathCollators.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/IteratingCallback.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/package-info.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/resource/MountedPathResource.java
*
 /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/Decorator.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/strategy/AdaptiveExecutionStrategy.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/TopologicalSort.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/jndi/NamingDump.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/TimerScheduler.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/AttributesMap.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/component/StopLifeCycle.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/TypeUtil.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/strategy/EatWhatYouKill.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/ssl/AliasedX509ExtendedKeyManager.java

* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/MultiMap.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/resource/PathResource.java
*
 /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/statistic/RateCounter.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/Promise.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/FileID.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/UrlEncoded.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/component/Graceful.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/security/Credential.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/FuturePromise.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/TreeTrie.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/CountingCallback.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/resource/Resources.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/statistic/RateStatistic.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/ManifestUtils.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/component/Dumpable.java
*
 /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/package-info.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/ssl/SslSelectionDump.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/ServiceLoaderSpliterator.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/StaticException.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/ClassMatcher.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
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* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/Fields.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/compression/DeflaterPool.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/resource/AttributeNormalizer.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/ExceptionUtil.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/UriPatternPredicate.java
*
 /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/LazyList.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/component/FileDestroyable.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/DeprecationWarning.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/HostPort.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/FutureCallback.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/ThreadPoolBudget.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/SearchPattern.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/MathUtils.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/SharedBlockingCallback.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/VirtualThreads.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/component/Destroyable.java
*
 /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/JavaVersion.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/ExecutionStrategy.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/Uptime.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/thread/ReservedThreadExecutor.java
* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/Jetty.java

* /jetty-util-12-0-16-sources-1-jar/org/eclipse/jetty/util/StringUtil.java
* /jetty-util-12-0-16-sources-1-jar/module-info.java
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* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpStatus.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpTokens.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/Trailers.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/QuotedQualityCSV.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/compression/NBitStringDecoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/ComplianceViolationException.java
*
 /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/CookieCache.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/DateGenerator.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/QuotedCSVParser.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/Http10FieldPreEncoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpException.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/MetaData.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/pathmap/PathSpec.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/pathmap/PathSpecSet.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpFieldsMap.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/pathmap/AbstractPathSpec.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/BadMessageException.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpTester.java
*
 /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/content/ResourceHttpContentFactory.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/UriCompliance.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/content/HttpContent.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/compression/NBitIntegerDecoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/ByteRange.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpVersion.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/CookieCutter.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/compression/HuffmanEncoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/pathmap/RegexPathSpec.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpField.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/content/ValidatingCachingHttpContentFactory.java

* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/content/ResourceHttpContent.java
*
 /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/MimeTypes.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/compression/NBitStringEncoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HostPortHttpField.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/pathmap/PathSpecGroup.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/content/PreCompressedHttpContent.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/MultiPart.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/pathmap/MatchedPath.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/Http1FieldPreEncoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/GZIPContentDecoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/compression/HuffmanDecoder.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/content/PreCompressedHttpContentFactory.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/EtagUtils.java
*
 /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/package-info.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpCookieStore.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/ImmutableHttpFields.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/HttpDateTime.java
* /jetty-http-12-0-16-sources-1-jar/org/eclipse/jetty/http/MultiPartFormData.java
* /jetty-http-12-0-16-sources-1-jar/module-info.java

1.645 jetty-session 12.0.16

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* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/FileSessionDataStoreFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/HouseKeeper.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionDataMap.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/ManagedSession.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionCacheFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/DefaultSessionIdManager.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/NullSessionCache.java
*
 /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/NullSessionCacheFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/AbstractSessionCache.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/FileSessionDataStore.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionDataStoreFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/AbstractSessionCacheFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionDataStore.java

* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/UnwriteableSessionDataException.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/DefaultSessionCacheFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/DatabaseAdaptor.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/JDBCSessionDataStoreFactory.java
* /jetty-session-12-0-16-sources-1-jar/module-info.java
*
/jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/package-info.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionIdManager.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/NullSessionDataStore.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionConfig.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/CachingSessionDataStoreFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/DefaultSessionCache.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/JDBCSessionDataStore.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/UnreadableSessionDataException.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/AbstractSessionManager.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/ObjectStreamSessionDataStore.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionInactivityTimer.java
*
/jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionData.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/NullSessionDataStoreFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionManager.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionCache.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionContext.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/AbstractSessionDataStoreFactory.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionHandler.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/CachingSessionDataStore.java
* /jetty-session-12-0-16-sources-1-jar/org/eclipse/jetty/session/SessionDataMapFactory.java

1.646 idna 15.1.0

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1.647 asm-commons 9.5

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/**
  * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
  * version.
  *
  * @param access access flags of the adapted
 method.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @param methodVisitor the method visitor to which this adapter delegates calls.
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

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/**
  * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
  * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
  * version.
  *
  * @param classVisitor a {@link ClassVisitor} to which
 this visitor will delegate calls.
  * @throws IllegalStateException If a subclass calls this constructor.
  */
```

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* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/RecordComponentRemapper.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
*

/asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/Method.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/Remapper.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/FieldRemapper.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/ModuleRemapper.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/MethodRemapper.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/ClassRemapper.java
*
/asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /asm-commons-9-5-sources-4-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
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/**
  * Constructs a new {@link AnnotationRemapper}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #AnnotationRemapper(int,String,AnnotationVisitor,Remapper)}
  * version.
  *
  * @param descriptor the descriptor of the
 visited annotation. May be {@literal null}.
  * @param annotationVisitor the annotation visitor this remapper must delegate to.
  * @param remapper the remapper to use to remap the types in the visited annotation.
  */
```

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/**
  * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
  * version.
  *
  * @param methodVisitor the method visitor
 to which this adapter delegates calls.
  * @param access the method's access flags (see {@link Opcodes}).
  * @param name the method's name.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

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1.648 asm-tree 9.5

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* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/ClassNode.java

*
 /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/ModuleExportNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
*
 /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/InsnList.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/ModuleNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/Util.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/ModuleOpenNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
*
 /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/RecordComponentNode.java
* /asm-tree-9-5-sources-4-jar/org/objectweb/asm/tree/FieldInsnNode.java
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1.649 jolokiajsr 1.7.2

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1.650 xnio-nio 3.8.16.Final

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```
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/SelectorUtils.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioXnioWorker.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioUdpChannel.java
*
 /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/OsgiActivator.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioXnioProvider.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/AbstractNioChannel.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioTcpServer.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/WorkerThread.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/Log.java
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* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioPipeSourceConduit.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioTcpServerHandle.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioHandle.java
*
 /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioSocketConduit.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioSocketStreamConnection.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/AbstractNioStreamConnection.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioUdpChannelHandle.java
* /xnio-nio-3-8-16-final-sources-1-jar/org/xnio/nio/NioPipeSinkConduit.java
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1.651 zstd-libs 1.5.6-r2

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* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/PromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/Success.java
*
 /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/FailedPromisesException.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/DeferredPromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/ResolvedPromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/Failure.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/PromiseFactory.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/TimeoutException.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/FailedPromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/package-info.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/Promise.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/Promises.java
* /org-osgi-util-promise-1-3-0-sources-1-jar/org/osgi/util/promise/Deferred.java

1.663 grpc-netty 1.66.0

1.663.1 Available under license :

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1.664 spring-retry 2.0.4

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1.665 vertx-grpc 4.5.9

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1.666 org-osgi-util-function 1.2.0

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*
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1.667 osgi-core 8.0.0

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1.668 hikaricp 6.0.0

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* /util-11-0-4-sources-1-jar/org/opendaylight/yangtools/util/SharedSingletonMapTemplate.java
* /util-11-0-4-sources-1-jar/org/opendaylight/yangtools/util/SingletonSpliterators.java
* /util-11-0-4-sources-1-jar/org/opendaylight/yangtools/util/CollectionWrappers.java
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*******************************************************************************/
```

Found in path(s):

* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/Success.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/Promises.java
*
 /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/Failure.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/PromiseImpl.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/package-info.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/Promise.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/PromiseFactory.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/TimeoutException.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/FailedPromiseImpl.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/DeferredPromiseImpl.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/FailedPromisesException.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/Deferred.java
* /org-osgi-util-promise-1-2-0-sources-1-jar/org/osgi/util/promise/ResolvedPromiseImpl.java

1.672 spring-boot 2.6.2

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1.673 mariadb-java-client 3.1.4

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Manifest-Version: 1.0
Created-By: 11.0.18 (Ubuntu)
Build-Jdk-Spec: 11
Export-Package: org.mariadb.jdbc;uses:="javax.sql,javax.transaction.xa,o
rg.mariadb.jdbc.client,org.mariadb.jdbc.client.util,org.mariadb.jdbc.ex
port,org.mariadb.jdbc.plugin";version="3.1.4",org.mariadb.jdbc.client;u
ses:="org.mariadb.jdbc,org.mariadb.jdbc.client.util,org.mariadb.jdbc.ex
port,org.mariadb.jdbc.message";version="3.1.4",org.mariadb.jdbc.client.
util;uses:="org.mariadb.jdbc.client,org.mariadb.jdbc.client.socket";ver
sion="3.1.4",org.mariadb.jdbc.client.socket;uses:="org.mariadb.jdbc,org
.mariadb.jdbc.client,org.mariadb.jdbc.client.util";version="3.1.4",org.
mariadb.jdbc.message;uses:="org.mariadb.jdbc,org.mariadb.jdbc.client,or
g.mariadb.jdbc.client.socket,org.mariadb.jdbc.client.util,org.mariadb.j
dbc.export";version="3.1.4",org.mariadb.jdbc.type;uses:="org.mariadb.jd
bc.client";version="3.1.4",org.mariadb.jdbc.export;uses:="org.mariadb.j
dbc,org.mariadb.jdbc.client";version="3.1.4",org.mariadb.jdbc.plugin;us
es:="javax.net.ssl,org.mariadb.jdbc,org.mariadb.jdbc.client,org.mariadb
.jdbc.client.socket,org.mariadb.jdbc.client.util,org.mariadb.jdbc.expor
t";version="3.1.4",org.mariadb.jdbc.plugin.codec;uses:="org.mariadb.jdb
c.client,org.mariadb.jdbc.client.socket,org.mariadb.jdbc.client.util,or

g.mariadb.jdbc.plugin,org.mariadb.jdbc.type";version="3.1.4",org.mariad
b.jdbc.plugin.authentication.standard;uses:="org.mariadb.jdbc,org.maria
db.jdbc.client,org.mariadb.jdbc.client.socket,org.mariadb.jdbc.plugin";
version="3.1.4",org.mariadb.jdbc.plugin.authentication.addon;uses:="org
.mariadb.jdbc,org.mariadb.jdbc.client,org.mariadb.jdbc.client.socket,or
g.mariadb.jdbc.plugin";version="3.1.4",org.mariadb.jdbc.plugin.credenti
al.aws;uses:="org.mariadb.jdbc,org.mariadb.jdbc.plugin";version="3.1.4"
,org.mariadb.jdbc.plugin.credential.env;uses:="org.mariadb.jdbc,org.mar
iadb.jdbc.plugin";version="3.1.4",org.mariadb.jdbc.plugin.credential.sy
stem;uses:="org.mariadb.jdbc,org.mariadb.jdbc.plugin";version="3.1.4",o
rg.mariadb.jdbc.plugin.tls.main;uses:="javax.net.ssl,org.mariadb.jdbc,o
rg.mariadb.jdbc.export,org.mariadb.jdbc.plugin";version="3.1.4"
Import-Package: javax.naming,javax.naming.ldap,javax.management,javax.sq
l,org.slf4j;resolution:=optional;version="[2.0,3)",javax.net;resolution
:=optional,javax.net.ssl;resolution:=optional,com.sun.jna;resolution:=o
ptional;version="[5.12,6)",com.sun.jna.platform.win32;resolution:=optio
nal;version="[5.12,6)",javax.transaction.xa;resolution:=optional,waffle
.windows.auth;resolution:=optional,waffle.windows.auth.impl;resolution:
=optional,org.ietf.jgss;resolution:=optional,javax.security.auth.login;
resolution:=optional,javax.security.auth.x500;resolution:=optional,soft
ware.amazon.awssdk.auth.credentials;resolution:=optional,software.amazo
n.awssdk.regions;resolution:=optional,software.amazon.awssdk.regions.pr
oviders;resolution:=optional,software.amazon.awssdk.services.rds;resolu
tion:=optional,software.amazon.awssdk.services.rds.model;resolution:=op
tional
Multi-Release: true
Bnd-LastModified: 1682605032503
Bundle-Description: JDBC driver for MariaDB and MySQL
Bundle-Developers: mariadbJdbcDevelopers;name="mariadb jdbc developers"
Bundle-DocURL: https://mariadb.com/kb/en/mariadb/about-mariadb-connector
-j/
Bundle-License: "LGPL-2.1"
Bundle-ManifestVersion: 2
Bundle-Name: mariadb-java-client
Bundle-SCM: url="https://github.com/mariadb-corporation/mariadb-connecto
r-j",connection="scm:git:git://github.com/mariadb-corporation/mariadb-c
onnector-j.git",developer-connection="scm:git:git@github.com:MariaDB/ma
riadb-connector-j.git",tag=HEAD
Bundle-SymbolicName: mariadb-java-client
Bundle-Vendor: mariadb.com
Bundle-Version: 3.1.4
Private-Package: org.mariadb.jdbc.client.column,org.mariadb.jdbc.client.
context,org.mariadb.jdbc.client.impl,org.mariadb.jdbc.client.result,org
.mariadb.jdbc.client.result.rowdecoder,org.mariadb.jdbc.client.socket.i
mpl,org.mariadb.jdbc.client.tls,org.mariadb.jdbc.codec,org.mariadb.jdbc
.message.client,org.mariadb.jdbc.message.server,org.mariadb.jdbc.messag
e.server.util,org.mariadb.jdbc.plugin.authentication,org.mariadb.jdbc.p
lugin.authentication.addon.gssapi,org.mariadb.jdbc.plugin.authenticatio

n.standard.ed25519,org.mariadb.jdbc.plugin.authentication.standard.ed25
519.math,org.mariadb.jdbc.plugin.authentication.standard.ed25519.math.e
d25519,org.mariadb.jdbc.plugin.authentication.standard.ed25519.spec,org
.mariadb.jdbc.plugin.credential,org.mariadb.jdbc.plugin.tls,org.mariadb
.jdbc.pool,org.mariadb.jdbc.util,org.mariadb.jdbc.util.constants,org.ma
riadb.jdbc.util.log,org.mariadb.jdbc.util.options
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /mariadb-java-client-3-1-4-1-jar/META-INF/MANIFEST.MF

1.674 osgi-service-component 1.5.0

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Found in path(s):
* /org-osgi-service-component-1-5-0-sources-1-
jar/org/osgi/service/component/runtime/dto/SatisfiedReferenceDTO.java
*
 /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/ComponentException.java
* /org-osgi-service-component-1-5-0-sources-1-
jar/org/osgi/service/component/propertytypes/SatisfyingConditionTarget.java
* /org-osgi-service-component-1-5-0-sources-1-
jar/org/osgi/service/component/propertytypes/ServiceDescription.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/AnyService.java
* /org-osgi-service-component-1-5-0-sources-1-
jar/org/osgi/service/component/runtime/dto/UnsatisfiedReferenceDTO.java

* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/runtime/ServiceComponentRuntime.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/ComponentContext.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/runtime/dto/package-info.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/runtime/dto/ComponentDescriptionDTO.java
*
/org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/ComponentServiceObjects.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/runtime/dto/ComponentConfigurationDTO.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/ComponentConstants.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/propertytypes/ServiceVendor.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/ComponentFactory.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/propertytypes/ExportedService.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/runtime/dto/ReferenceDTO.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/ComponentInstance.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/runtime/package-info.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/package-info.java
*
/org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/propertytypes/ServiceRanking.java
* /org-osgi-service-component-1-5-0-sources-1-jar/org/osgi/service/component/propertytypes/package-info.java

1.675 grpc-stub 1.66.0

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1.676 proto-google-common-protos 2.41.0

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1.677 vertx-core 4.5.9

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* /vertx-core-4-5-9-1-jar/META-INF/maven/io.vertx/vertx-core/pom.xml
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Core commands
io.vertx.core.impl.launcher.commands.RunCommandFactory
io.vertx.core.impl.launcher.commands.VersionCommandFactory
io.vertx.core.impl.launcher.commands.BareCommandFactory

Background application control
io.vertx.core.impl.launcher.commands.ListCommandFactory
io.vertx.core.impl.launcher.commands.StartCommandFactory
io.vertx.core.impl.launcher.commands.StopCommandFactory

Found in path(s):
* /vertx-core-4-5-9-1-jar/META-INF/services/io.vertx.core.spi.launcher.CommandFactory

1.678 osgi-service-event 1.4.1

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Found in path(s):
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/EventConstants.java
*
 /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/EventProperties.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/TopicPermission.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/annotations/RequireEventAdmin.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/propertytypes/package-info.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/Event.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/EventAdmin.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/package-info.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/propertytypes/EventDelivery.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/annotations/package-info.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/propertytypes/EventTopics.java
* /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/EventHandler.java
*
 /org-osgi-service-event-1-4-1-sources-1-jar/org/osgi/service/event/propertytypes/EventFilter.java

1.679 amqp-client 5.18.0

1.679.1 Available under license :

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Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/en-US/M
PL/2.0/
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.18.0
Bnd-LastModified: 1687163658344
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: VMware, Inc. or its affiliates.
Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=opt
ional,com.fasterxml.jackson.core;version="[2.15,3)";resolution:=optio

nal,com.fasterxml.jackson.databind;version="[2.15,3)";resolution:=opt
ional,com.fasterxml.jackson.databind.node;version="[2.15,3)";resoluti
on:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitm
q.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tool
s.json,com.rabbitmq.utility,io.micrometer.core.instrument;version="[1
.11,2)";resolution:=optional,io.opentelemetry.api;resolution:=optiona
l,io.opentelemetry.api.common;resolution:=optional,io.opentelemetry.a
pi.metrics;resolution:=optional,javax.naming,javax.naming.directory,j
avax.net,javax.net.ssl,javax.security.auth.callback,javax.security.au
th.x500,javax.security.sasl,org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
m.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabb
itmq.utility,javax.net,javax.net.ssl";version="5.18.0",com.rabbitmq.c
lient.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbit
mq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instr
ument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,java
x.net.ssl";version="5.18.0",com.rabbitmq.client.impl.nio;uses:="com.r
abbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.18.
0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.r
abbitmq.client.impl";version="5.18.0",com.rabbitmq.tools;version="5.1
8.0",com.rabbitmq.tools.json;version="5.18.0",com.rabbitmq.tools.json
rpc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,
com.rabbitmq.client";version="5.18.0",com.rabbitmq.utility;version="5
.18.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.18.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /amqp-client-5-18-0-1-jar/META-INF/MANIFEST.MF
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/amqp-client-5-18-0-1-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches
/amqp-client-5-18-0-1-jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

Found in path(s):
* /bin/grep

1.680 pax-url-obr 2.6.14

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Found in path(s):

* /pax-url-obr-2-6-14-sources-1-jar/org/ops4j/pax/url/obr/internal/FilterValidator.java
* /pax-url-obr-2-6-14-sources-1-jar/org/ops4j/pax/url/obr/internal/Activator.java
* /pax-url-obr-2-6-14-sources-1-jar/org/ops4j/pax/url/obr/ServiceConstants.java
* /pax-url-obr-2-6-14-sources-1-jar/org/ops4j/pax/url/obr/internal/Connection.java
*
/pax-url-obr-2-6-14-sources-1-jar/org/ops4j/pax/url/obr/internal/Configuration.java

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Found in path(s):
* /pax-url-obr-2-6-14-sources-1-jar/org/ops4j/pax/url/obr/internal/ConfigurationImpl.java

1.681 pax-logging-logback 2.2.3

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* /pax-logging-logback-2-2-3-sources-1-jar/org/ops4j/pax/logging/logback/internal/Slf4jLogbackMDCAdapter.java
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* /pax-logging-logback-2-2-3-sources-1-jar/ch/qos/logback/classic/spi/PackagingDataCalculator.java
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Found in path(s):
* /pax-logging-logback-2-2-3-sources-1-
jar/org/ops4j/pax/logging/logback/internal/spi/PaxLocationInfoForLogback.java
* /pax-logging-logback-2-2-3-sources-1-
jar/org/ops4j/pax/logging/logback/internal/spi/PaxLoggingEventForLogback.java
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* /pax-logging-logback-2-2-3-sources-1-jar/META-INF/maven/org.ops4j.pax.logging/pax-logging-logback/pom.xml
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* /pax-logging-logback-2-2-3-sources-1-jar/org/ops4j/pax/logging/logback/internal/Activator.java
* /pax-logging-logback-2-2-3-sources-1-jar/org/ops4j/pax/logging/logback/internal/PaxLoggerImpl.java

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* /pax-logging-logback-2-2-3-sources-1-jar/org/ops4j/pax/logging/logback/internal/PaxLoggingServiceImpl.java
* /pax-logging-logback-2-2-3-sources-1-
jar/org/ops4j/pax/logging/logback/internal/bridges/PaxAppenderDelegate.java
* /pax-logging-logback-2-2-3-sources-1-jar/org/ops4j/pax/logging/logback/internal/spi/PaxLevelImpl.java

1.682 pax-jdbc-db2 1.5.6

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Found in path(s):
* /pax-jdbc-db2-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/db2/impl/DB2DataSourceFactory.java
* /pax-jdbc-db2-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/db2/impl/Activator.java

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* /pax-jdbc-db2-1-5-6-sources-1-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-db2/pom.xml

1.683 pax-transx-jdbc 0.5.4

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* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/LocalDataSourceMCF.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/Wrappers.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/TransxDataSource.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/ConnectionHandle.java
*
 /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/ConfigurableSQLStateExceptionSorter.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/ManagedJDBCConnection.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/AbstractJdbcManagedConnectionFactory.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/ManagedXAConnection.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/KnownSQLStateExceptionSorter.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/ConnectionPoolDataSourceMCF.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/ManagedPooledConnection.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/PreparedStatementKey.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/XADataSourceMCF.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/PreparedStatementWrapper.java
*
 /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/ConnectionWrapper.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/impl/AutocommitSpecCompliant.java
* /pax-transx-jdbc-0-5-4-sources-1-jar/org/ops4j/pax/transx/jdbc/ManagedDataSourceBuilder.java
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1.684 pax-jdbc-config 1.5.6

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* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/PoolingWrapper.java
* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/DataSourceRegistration.java
* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/Decryptor.java
*
 /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/DataSourceConfigManager.java
* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/FileConfigLoader.java
* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/ConfigLoader.java
* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/DataSourceWrapper.java
* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/ServiceTrackerHelper.java
* /pax-jdbc-config-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/config/impl/Activator.java

1.685 pax-transx-tm-geronimo 0.5.4

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* /pax-transx-tm-geronimo-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/impl/geronimo/TransactionManagerService.java
* /pax-transx-tm-geronimo-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/impl/geronimo/TransactionManagerWrapper.java
* /pax-transx-tm-geronimo-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/impl/geronimo/Activator.java
*
 /pax-transx-tm-geronimo-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/impl/geronimo/GeronimoPlatformTransactionManager.java
* /pax-transx-tm-geronimo-0-5-4-sources-1-jar/javax/resource/spi/XATerminator.java

1.686 pax-transx-connector 0.5.4

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jar/org/ops4j/pax/transx/connector/impl/NamedXAResourceWithConnection.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/impl/WrapperNamedXAResource.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/ConnectionManagerBuilder.java
*
 /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/impl/PoolMXBean.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/impl/LocalXAResource.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/SubjectSource.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/impl/MBeanHandler.java
* /pax-transx-connector-0-5-4-sources-1-
jar/org/ops4j/pax/transx/connector/impl/RecoverableResourceFactoryImpl.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/impl/SubjectCRIKey.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/impl/GenericConnectionManager.java
* /pax-transx-connector-0-5-4-sources-1-jar/org/ops4j/pax/transx/connector/impl/PoolConfigMXBean.java

1.687 pax-jdbc-oracle 1.5.6

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* /pax-jdbc-oracle-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/oracle/impl/Activator.java
* /pax-jdbc-oracle-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/oracle/impl/OracleDataSourceFactory.java

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* /pax-jdbc-oracle-1-5-6-sources-1-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-oracle/pom.xml

1.688 jolokiajsr 1.7.1

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* /jolokia-jsr160-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml

1.689 pax-jdbc-hsqldb 1.5.6

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1.690 pax-jdbc-pool-c3p0 1.5.6

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* /pax-jdbc-pool-c3p0-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/c3p0/impl/ds/C3p0XAPooledDataSourceFactory.java
* /pax-jdbc-pool-c3p0-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/c3p0/impl/ds/C3p0PooledDataSourceFactory.java
* /pax-jdbc-pool-c3p0-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/c3p0/impl/Activator.java
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1.691 pax-jdbc 1.5.6

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* /pax-jdbc-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/impl/DriverDataSource.java
* /pax-jdbc-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/impl/Activator.java

1.692 pax-url-aether-support 2.6.14

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* /pax-url-aether-support-2-6-14-sources-1-jar/org/eclipse/aether/internal/impl/PaxLocalRepositoryManager.java

1.693 pax-transx-tm-atomikos 0.5.4

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jar/org/ops4j/pax/transx/tm/impl/atomikos/TransactionManagerWrapper.java
* /pax-transx-tm-atomikos-0-5-4-sources-1-jar/com/atomikos/logging/LoggerFactory.java
* /pax-transx-tm-atomikos-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/impl/atomikos/Activator.java
* /pax-transx-tm-atomikos-0-5-4-sources-1-
jar/org/ops4j/pax/transx/tm/impl/atomikos/TransactionManagerService.java
*
 /pax-transx-tm-atomikos-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/impl/atomikos/OsgiAssembler.java
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1.694 pax-url-aether 2.6.14

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1.695 pax-url-wrap 2.6.14

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* /pax-url-wrap-2-6-14-sources-1-jar/org/ops4j/pax/url/wrap/internal/Activator.java
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*/
```

Found in path(s):
* /pax-url-wrap-2-6-14-sources-1-jar/org/ops4j/pax/url/wrap/internal/Connection.java

1.696 jetty-security 11.0.24

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The following dependencies are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL
 and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* jakarta.servlet:jakarta.servlet-api
* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

* org.ow2.asm:asm-commons
* org.ow2.asm:asm

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* 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
* org.apache.tomcat:tomcat-el-api

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* org.eclipse.jetty.toolchain:jetty-schemas

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1.697 jolokia-osgi 1.7.2

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<project>
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<packaging>bundle</packaging>
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<description>A simple Java toolkit for JSON</description>
<url>http://code.google.com/p/json-simple/</url>
<licenses>
<license>
<name>The Apache Software License, Version 2.0</name>

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      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    </license>
  </licenses>
  <developers>
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      <name>Yidong Fang</name>
      <roles>
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                  <goal>jar-no-fork</goal>
                </goals>
              </execution>
            </executions>
          </plugin>
        </plugins>
      </build>

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              <name>performRelease</name>
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            </property>
          </activation>
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                    </goals>
                  </execution>
                </executions>
              </plugin>
            </plugins>
          </build>
        </profile>
      </profiles>
```

</project>

Found in path(s):
* /jolokia-osgi-1-7-2-jar/lib/json-simple-1-1-1-jar/META-INF/maven/com.googlecode.json-simple/json-simple/pom.xml
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* /jolokia-osgi-1-7-2-jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml
* /jolokia-osgi-1-7-2-jar/META-INF/maven/org.jolokia/jolokia-core/pom.xml
* /jolokia-osgi-1-7-2-jar/META-INF/maven/org.jolokia/jolokia-osgi/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1672048589070
Build-Jdk: 1.8.0_352
Built-By: roland
Bundle-Activator: org.jolokia.osgi.JolokiaActivator
Bundle-ClassPath: .,lib/json-simple-1.1.1.jar
Bundle-Description: Jolokia agent exposing JMX via HTTP/JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jolokia Agent
Bundle-SymbolicName: org.jolokia.osgi
Bundle-Version: 1.7.2
Created-By: Apache Maven Bundle Plugin
Embed-Dependency: json-simple;inline=false,jolokia-core;inline=true,jolo
kia-jsr160;inline=true
Embed-Directory: lib
Embedded-Artifacts: lib/json-simple-1.1.1.jar;g="com.googlecode.json-sim
ple";a="json-simple";v="1.1.1"

Export-Package: org.jolokia.osgi.security;uses:="javax.servlet.http,org.
jolokia.util,org.osgi.service.http,org.jolokia.restrictor,javax.managem
ent,org.osgi.framework,javax.security.auth.callback,javax.security.auth
,javax.security.auth.login,org.osgi.util.tracker";version="1.7.2",org.j
olokia.osgi.servlet;uses:="org.osgi.service.http,org.osgi.framework,jav
ax.servlet";version="1.7.2",org.jolokia.restrictor;uses:="javax.managem
ent,javax.xml.parsers,org.w3c.dom,org.xml.sax";version="1.7.2",org.jolo
kia.util;uses:="javax.servlet.http,javax.xml.datatype,javax.management,
javax.management.relation,javax.crypto,javax.crypto.spec,javax.security
.auth.callback";version="1.7.2",org.jolokia.converter;uses:="org.joloki
a.converter.object,org.jolokia.converter.json";version="1.7.2",org.jolo
kia.converter.json;uses:="org.jolokia.converter.object,javax.management
,org.jolokia.util,javax.management.openmbean";version="1.7.2",org.jolok
ia.converter.object;uses:="javax.management.openmbean,org.jolokia.util,
javax.management";version="1.7.2"
Import-Package: javax.crypto,javax.crypto.spec,javax.management,javax.ma
nagement.openmbean,javax.management.relation,javax.management.remote,ja
vax.naming,javax.rmi.ssl,javax.security.auth,javax.security.auth.callba
ck,javax.security.auth.login,javax.servlet,javax.servlet.http,javax.xml
,javax.xml.datatype,javax.xml.parsers,org.jolokia.converter;version="[1
.7,2)",org.jolokia.osgi.servlet;version="1.7.2",org.jolokia.restrictor;
version="1.7.2",org.jolokia.util;version="1.7.2",org.osgi.framework;ver
sion="[1.0.0,2.0.0)",org.osgi.service.cm;version="[1.0.0,2.0.0)";resolu
tion:=optional,org.osgi.service.http;version="[1.0.0,2.0.0)";resolution
:=optional,org.osgi.service.log;version="[1.0.0,2.0.0)",org.osgi.util.t
racker;version="[1.0.0,2.0.0)",org.w3c.dom,org.xml.sax
Tool: Bnd-1.50.0

Found in path(s):
* /jolokia-osgi-1-7-2-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Bnd-LastModified: 1332231819873
Build-Jdk: 1.6.0_26
Built-By: fangyidong
Bundle-Description: A simple Java toolkit for JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: JSON.simple
Bundle-SymbolicName: com.googlecode.json-simple
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.json.simple;uses:="org.json.simple.parser";version="
1.1.1",org.json.simple.parser;uses:="org.json.simple";version="1.1.1"
Tool: Bnd-1.50.0

Found in path(s):

* /jolokia-osgi-1-7-2-jar/lib/json-simple-1-1-1-jar/META-INF/MANIFEST.MF

1.698 pax-jdbc-pool-dbcp2 1.5.6

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Found in path(s):
* /pax-jdbc-pool-dbcp2-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/Activator.java
* /pax-jdbc-pool-dbcp2-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/DbcpXAPooledDataSourceFactory.java
* /pax-jdbc-pool-dbcp2-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/DbcpPooledDataSourceFactory.java
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Found in path(s):
* /pax-jdbc-pool-dbcp2-1-5-6-sources-1-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-pool-dbcp2/pom.xml

1.699 jetty-util 11.0.24

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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

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* org.ow2.asm:asm

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* org.apache.taglibs:taglibs-standard-impl

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* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
* org.mortbay.jasper:apache-el
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-el-api

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* org.eclipse.jetty.toolchain:jetty-schemas

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Found in path(s):
* /pax-transx-tm-api-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/ResourceFactory.java
* /pax-transx-tm-api-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/LastResource.java
* /pax-transx-tm-api-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/NamedResource.java
* /pax-transx-tm-api-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/Transaction.java
*
/pax-transx-tm-api-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/TransactionManager.java
* /pax-transx-tm-api-0-5-4-sources-1-jar/org/ops4j/pax/transx/tm/Status.java
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* /pax-transx-tm-api-0-5-4-sources-1-jar/META-INF/maven/org.ops4j.pax.transx/pax-transx-tm-api/pom.xml

1.701 pax-swissbox-property 1.8.5

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Found in path(s):
* /pax-swissbox-property-1-8-5-sources-1-jar/org/ops4j/pax/swissbox/property/BundleContextPropertyResolver.java

1.702 pax-transx-jms 0.5.4

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* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/ManagedConnectionFactoryBuilder.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/JMSProducerImpl.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/ConnectionRequestInfoImpl.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/SessionImpl.java
*
 /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/ConnectionImpl.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/TransxConnectionFactory.java

* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/ManagedConnectionImpl.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/JMSConsumerImpl.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/ManagedConnectionFactoryImpl.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/Utils.java
* /pax-transx-jms-0-5-4-sources-1-jar/org/ops4j/pax/transx/jms/impl/JMSContextImpl.java
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* /pax-transx-jms-0-5-4-sources-1-jar/META-INF/maven/org.ops4j.pax.transx/pax-transx-jms/pom.xml

1.703 pax-logging-api 2.2.3

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* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/PaxLoggingService.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/PaxLogger.java
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* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/internal/JdkHandler.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/avalon/AvalonLogFactory.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxFilter.java
*
 /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxLayout.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxErrorHandler.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxLevel.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/internal/TrackingLogger.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/jcl/JclLogger.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/slf4j/Slf4jLogger.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/juli/JuliLogger.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/PaxAppenderProxy.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/OSGIPaxLoggingManager.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/avalon/AvalonLogger.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxLocationInfo.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/slf4j/Slf4jLoggerFactory.java
*
 /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxLoggingEvent.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/PaxLoggingManager.java

* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxAppender.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/BufferingLog.java
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# SLF4J 2 switches from org.slf4j.impl.StaticLoggerBinder to Service Loader API
org.ops4j.pax.logging.slf4j.PaxLoggingSLF4JServiceProvider
```

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*
 /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/MDC.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/pattern/ExtrasPatternParser.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/juli/logging/LogFactory.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/BasicConfigurator.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/commons/logging/LogFactory.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/Priority.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/NDC.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/pattern/ExtrasFormattingInfo.java

* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/xml/DOMConfigurator.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/xml/XSLTLayout.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/Category.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/PropertyConfigurator.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/PaxContext.java
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 /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/helpers/Loader.java
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 /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/jbosslogging/JBossLoggingLogger.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/RegisteredService.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/package-info.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/BackendSupport.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/LogReaderServiceImpl.java
* /pax-logging-api-2-2-3-sources-1-jar/org/jboss/logging/package-info.java
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* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/juli/package-info.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/slf4j/package-info.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/package-info.java
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 /pax-logging-api-2-2-3-sources-1-jar/org/apache/commons/logging/package-info.java
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* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/jcl/package-info.java

* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/jbosslogging/PaxLoggingLoggerProvider.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/PaxMarker.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/FormattingTriple.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/PaxDefaultLogStreamProvider.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/PaxLoggingManagerAwareLogger.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/log4j/AuditLevel.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/EventAdminConfigurationNotifier.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/PaxLoggingConstants.java
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/pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/log4jv2/Log4jv2ThreadContextStack.java
* /pax-logging-api-2-2-3-sources-1-jar/org/apache/logging/log4j/LogManager.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/log4jv2/Log4jv2ThreadContextMap.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/log4jv2/Log4jv2LoggerContext.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/log4jv2/Log4jv2LoggerContextFactory.java
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* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/EventAdminTracker.java
* /pax-logging-api-2-2-3-sources-1-jar/org/ops4j/pax/logging/spi/support/FrameworkHandler.java
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org.apache.logging.log4j.util.PaxPropertySource

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1.704 pax-jdbc-jtds 1.5.6

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1.705 pax-url-classpath 2.6.14

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1.706 pax-jdbc-teradata 1.5.6

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1.707 pax-jdbc-mariadb 1.5.6

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1.708 pax-jdbc-pool-hikaricp 1.5.6

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* /pax-jdbc-pool-hikaricp-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/hikaricp/impl/Activator.java

1.709 pax-logging-log4j2 2.2.3

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* /pax-logging-log4j2-2-2-3-sources-1-jar/org/apache/logging/log4j/core/config/status/StatusConfiguration.java
* /pax-logging-log4j2-2-2-3-sources-1-
jar/org/apache/logging/log4j/core/appender/db/jdbc/JdbcDatabaseManager.java
* /pax-logging-log4j2-2-2-3-sources-1-jar/org/apache/logging/log4j/core/impl/ReusableLogEventFactory.java
* /pax-logging-log4j2-2-2-3-sources-1-jar/org/apache/logging/log4j/core/pattern/DatePatternConverter.java
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1.710 pax-url-commons 2.6.14

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1.711 pax-jdbc-pool-common 1.5.6

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* /pax-jdbc-pool-common-1-5-6-sources-1-
jar/org/ops4j/pax/jdbc/pool/common/impl/AbstractDataSourceFactoryTracker.java
* /pax-jdbc-pool-common-1-5-6-sources-1-
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1.712 pax-jdbc-pool-aries 1.5.6

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jar/org/ops4j/pax/jdbc/pool/aries/impl/AriesXaPooledDataSourceFactory.java
* /pax-jdbc-pool-aries-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/aries/impl/Activator.java

1.713 pax-jdbc-pool-transx 1.5.6

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* /pax-jdbc-pool-transx-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/transx/impl/TransxXaPooledDataSourceFactory.java
* /pax-jdbc-pool-transx-1-5-6-sources-1-jar/org/ops4j/pax/jdbc/pool/transx/impl/TransxPooledDataSourceFactory.java

1.714 pax-url-war 2.6.14

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* /pax-url-war-2-6-14-sources-1-jar/org/ops4j/pax/url/war/internal/Configuration.java
* /pax-url-war-2-6-14-sources-1-jar/org/ops4j/pax/url/war/internal/WarConnection.java
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1.715 yang-xpath-api 11.0.4

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* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathMathSupport.java
* /yang-xpath-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/xpath/api/BigDecimalXPathMathSupport.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/DoubleNumberExpr.java
* /yang-xpath-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/xpath/api/AbstractYangXPathMathSupport.java
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* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangFilterExpr.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/package-info.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangBinaryOperator.java
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* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathExpression.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangLocationPath.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathParserFactory.java
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* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangFunctionCallExpr.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangLiteralExpr.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathParser.java
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/yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangFunction.java
* /yang-xpath-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/api/YangBooleanConstantExpr.java

1.716 mdsal-binding-model-api 12.0.3

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jar/org/opendaylight/mdsal/binding/model/api/type/builder/GeneratedTypeBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/AnnotationType.java
* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/type/builder/package-
info.java
* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/GeneratedType.java
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 /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/AccessModifier.java
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jar/org/opendaylight/mdsal/binding/model/api/type/builder/GeneratedPropertyBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/DefaultType.java
* /mdsal-binding-model-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/api/type/builder/ConstantBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/api/type/builder/AnnotationTypeBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/CodeGenerator.java
* /mdsal-binding-model-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/api/type/builder/EnumBuilder.java
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jar/org/opendaylight/mdsal/binding/model/api/type/builder/GeneratedTOBuilder.java
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/mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/TypeMember.java
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* /mdsal-binding-model-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/api/type/builder/MethodSignatureBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/DocumentedType.java
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* /mdsal-binding-model-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/api/ParameterizedType.java
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* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/TypeComment.java
* /mdsal-binding-model-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/api/pkg-info.java
* /mdsal-binding-model-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/api/type/builder/AnnotableTypeBuilder.java

1.717 rfc6643-model-api 11.0.4

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jar/org/opendaylight/yangtools/rfc6643/model/api/MaxAccessStatement.java
* /rfc6643-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/model/api/OidSchemaNode.java
* /rfc6643-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/model/api/DisplayHintEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/model/api/DisplayHintStatement.java
* /rfc6643-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/model/api/MaxAccessSchemaNode.java
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jar/org/opendaylight/yangtools/rfc6643/model/api/ImpliedEffectiveStatement.java
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jar/org/opendaylight/yangtools/rfc6643/model/api/MaxAccessEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/model/api/DefValStatement.java
* /rfc6643-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/model/api/DefValEffectiveStatement.java
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* /rfc6643-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/model/api/DisplayHintSchemaNode.java
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jar/org/opendaylight/yangtools/rfc6643/model/api/OidEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/model/api/AliasEffectiveStatement.java
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* /rfc6643-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/model/api/IetfYangSmiv2ExtensionsMapping.java
* /rfc6643-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/model/api/AliasStatement.java
* /rfc6643-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/model/api/OidStatement.java
* /rfc6643-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/model/api/ObjectIdentifier.java

1.718 rfc8819-model-api 11.0.4

1.718.1 Available under license :

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* /rfc8819-model-api-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/rfc8819-model-api/pom.xml
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Found in path(s):
* /rfc8819-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/model/api/ModuleTagEffectiveStatement.java
* /rfc8819-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/model/api/Tag.java
* /rfc8819-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/model/api/ModuleTagConstants.java
* /rfc8819-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/model/api/ModuleTagStatement.java
* /rfc8819-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/model/api/IetfTags.java
* /rfc8819-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/model/api/ModuleTagStatements.java
*
 /rfc8819-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/model/api/Prefix.java
* /rfc8819-model-api-11-0-4-sources-1-jar/module-info.java

1.719 protobuf-java-util 3.21.5

1.719.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1660077522570
Build-Jdk: 1.8.0_181-google-v7
Built-By: deannagarcia
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: 3.21.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.21.5";uses:="com.goo
gle.protobuf,javax.annotation"

Import-Package: com.google.common.base;version="[31.1,32)",com.google.co
mmon.io;version="[31.1,32)",com.google.common.math;version="[31.1,32)",
com.google.common.primitives;version="[31.1,32)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f;version="[3.21,4)",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):
* /protobuf-java-util-3-21-5-1-jar/META-INF/MANIFEST.MF

1.720 yang-parser-impl 11.0.4

1.720.1 Available under license :

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Found in path(s):
* /yang-parser-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/repo/AbstractYangTextSchemaSourceRegistration.java
* /yang-parser-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/repo/YangTextSchemaContextResolver.java
* /yang-parser-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/repo/YangTextSchemaSourceRegistration.java
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* /yang-parser-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/repo/SharedSchemaRepository.java
* /yang-parser-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/repo/AssembleSources.java
* /yang-parser-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/repo/DependencyResolver.java
* /yang-parser-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/repo/SourceIdMismatchDetector.java
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Found in path(s):
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jar/org/opendaylight/yangtools/yang/parser/repo/RevisionDependencyResolver.java
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Found in path(s):
* /yang-parser-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/impl/package-info.java
* /yang-parser-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/impl/DefaultYangParserFactory.java
* /yang-parser-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/impl/DefaultReactors.java
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Found in path(s):
* /yang-parser-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/impl/DefaultYangLibResolver.java

1.721 yang-data-util 11.0.4

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Found in path(s):
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/ListItemContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractListLikeContext.java
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Found in path(s):
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/DuplicateChildNodeRejectedException.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/MultipleEntryDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-jar/module-info.java
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Found in path(s):
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AnydataNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/OpaqueContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractMountPointDataWithSchema.java
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Found in path(s):
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/NormalizedNodeStreamWriterStack.java
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Found in path(s):
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/codec/LazyCodecCache.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/codec/PrecomputedCodecCache.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/codec/CodecCache.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/codec/TypeAwareCodec.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/codec/SharedCodecCache.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/codec/NoopCodecCache.java
*
/yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/codec/AbstractCodecFactory.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/codec/QNameCodecUtil.java
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* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/LeafListNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/ContainerNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/AbstractNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/ListNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/CompositeNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/ParserStreamUtils.java
*
/yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/CaseNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/SimpleNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/LeafNodeDataWithSchema.java

* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/ListEntryNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/LeafListEntryNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/ChoiceNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/AnyXmlNodeDataWithSchema.java
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* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/MapContext.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractPathMixinContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/LeafContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/ListContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/DataSchemaContextTree.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/LeafsetEntryInterner.java
*
 /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/LeafInterner.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/ContainerContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractContext.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/XpathStringParsingPathArgumentBuilder.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractCompositeContext.java
* /yang-data-util-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/LeafListItemContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/LeafListContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/DataSchemaContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/impl/context/ChoiceContext.java
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* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractNamespaceCodec.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractStringInstanceIdentifierCodec.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractModuleStringInstanceIdentifierCodec.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractModuleStringIdentityrefCodec.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractStringIdentityrefCodec.java
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* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/ImmutableMountPointContext.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/MountPointData.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractDynamicMountPointContextFactory.java
* /yang-data-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/util/AbstractMountPointContextFactory.java
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1.722 rfc8342-ietf-datastores 12.0.3

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/**
* This YANG module defines a set of identities for identifying datastores.
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* (https://trustee.ietf.org/license-info). This version of this YANG module is
* part of RFC 8342 (https://www.rfc-editor.org/info/rfc8342); see the RFC itself
* for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-datastores
* <pre>
* module ietf-datastores {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-datastores;
*   prefix ds;
*   revision 2018-02-14 {
*
  }
*   identity datastore {

*   }
*   identity conventional {
*   base datastore;
*   }
*   identity running {
*   base conventional;
*   }
*   identity candidate {
*   base conventional;
*   }
*   identity startup {
*   base conventional;
*   }
*   identity intended {
*   base conventional;
*   }
*   identity dynamic {
*   base datastore;
*   }
*   identity operational {
*   base datastore;
*   }
*   typedef datastore-ref {
*   type identityref {
*   base datastore;
*   }
*   }
* }
* </pre>
*
*/

Found in path(s):
* /rfc8342-ietf-datastores-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/datastores/rev180214/IetfDatastoresData.java
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Found in path(s):
* /rfc8342-ietf-datastores-12-0-3-sources-1-jar/META-INF/yang/ietf-datastores@2018-02-14.yang

1.723 restconf-common-models 6.0.5

1.723.1 Available under license :

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```
module odl-device-notification {
 namespace "urn:opendaylight:device:notification";
 prefix "device-notifi";

 import ietf-inet-types {
   prefix inet;
 }

 organization "OpenDaylight";
 contact "Nikhil Soni <nikk.sonitech@gmail.com>";

 description
   "This module contains the definition of methods related to
   device notification model

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    under the terms of the Eclipse Public License v1.0 which
    accompanies this distribution, and is available at
    http://www.eclipse.org/legal/epl-v10.html";

 revision "2022-11-06" {
   description
     "Initial revision";
 }

 rpc subscribe-device-notification {
   description
     "Subscribe to notifications on specified device.";

   input {
      leaf path {
        type instance-identifier;
        description
 "Device mount point path";
      }
    }
    output {
      leaf stream-path {
        type inet:uri;
        description "Device Notification stream URL";
      }
    }
 }
```

}

Found in path(s):
* /restconf-common-models-6-0-5-sources-1-jar/META-INF/yang/odl-device-notification@2022-11-06.yang
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/**
* This module contains the definition of methods related to sal remote model.
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* accompanying materials are made available under the terms of the Eclipse Public
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* http://www.eclipse.org/legal/epl-v10.html
*
* <p>
* This class represents the following YANG schema fragment defined in module sal-remote
* <pre>
* module sal-remote {
*   yang-version 1;
*   namespace urn:opendaylight:params:xml:ns:yang:controller:md:sal:remote;
*   prefix sal-remote;
*   revision 2014-01-14 {
*   }
*   typedef q-name {
*   type string;
*   }
*   rpc create-data-change-event-subscription {
*   input input {
*   leaf path {
*   type instance-identifier;
*   }
*   }
*   output output {
*   leaf stream-name {
*   type string;
*   }
*   }
*   }
*   notification data-changed-notification {
*   list data-change-event {
*   key path;
*   leaf path {
*   type instance-identifier;
*   }
*   leaf store {
*   type enumeration {
*   enum config;
*   enum operation;
*   }

```
*       }
*       leaf operation {
*         type enumeration {
*           enum created;
*           enum updated;
*           enum deleted;
*         }
*       }
*       anyxml data {
*       }
*     }
*   }
*   rpc create-notification-stream {
*     input input {
*       leaf-list notifications {
*         type q-name;
*       }
*     }
*     output output {
*       leaf notification-stream-identifier {
*         type string;
*       }
*     }
*   }
*   rpc begin-transaction {
*     output output {
*       anyxml data-modification-transaction {
*       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /restconf-common-models-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/controller/md/sal/remote/rev140114/SalRemoteData.java
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```
module sal-remote {

  yang-version 1;
  namespace "urn:opendaylight:params:xml:ns:yang:controller:md:sal:remote";
  prefix "sal-remote";

  organization "Cisco Systems, Inc.";
```

```
  contact "Martin Bobak <mbobak@cisco.com>";

  description
       "This module contains the definition of methods related to
        sal remote model.

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        http://www.eclipse.org/legal/epl-v10.html";

  revision "2014-01-14" {
     description
        "Initial revision";
  }


   typedef q-name {
     type string;
     reference
       "http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/#QName";
   }

  rpc create-data-change-event-subscription
 {
      input {
         leaf path {
            type instance-identifier;
            description "Subtree path. ";
         }
       }
       output {
         leaf stream-name {
            type string;
            description "Notification stream name.";
         }
       }
  }

  notification data-changed-notification {
     description "Data change notification.";
     list data-change-event {
         key path;
         leaf path {
            type instance-identifier;
         }
```

```
        leaf store {
          type enumeration {
            enum config;
            enum operation;
          }
        }
        leaf operation {
          type enumeration {
            enum created;
            enum updated;
            enum deleted;
          }
        }
        anyxml data{
          description "DataObject ";

        }
      }
  }

  rpc create-notification-stream {
     input {
        leaf-list notifications {
          type q-name;
          description "Notification QNames";
        }
      }
     output {
        leaf notification-stream-identifier {
          type string;
          description "Unique notification stream identifier, in which notifications will be propagated";
        }
     }
  }

  rpc begin-transaction {
     output {
        anyxml data-modification-transaction{
          description "DataModificationTransaction xml";
        }
     }
  }

}
```

Found in path(s):
* /restconf-common-models-6-0-5-sources-1-jar/META-INF/yang/sal-remote@2014-01-14.yang

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-->

Found in path(s):
* /restconf-common-models-6-0-5-sources-1-jar/META-INF/maven/org.opendaylight.netconf/restconf-common-models/pom.xml
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*
* <p>
* This class represents the following YANG schema fragment defined in module odl-device-notification
* <pre>
* module odl-device-notification {
*   namespace urn:opendaylight:device:notification;
*   prefix device-notifi;
*   import ietf-inet-types {
*   prefix inet;
*   }
*   revision 2022-11-06 {
*   }
*   rpc subscribe-device-notification {
*   input input {
*   leaf path {
*   type instance-identifier;
*   }
*   }
*   output output {
*   leaf stream-path {
*   type inet:uri;
*   }
*   }
*   }
* }
* </pre>
*

*/

Found in path(s):
* /restconf-common-models-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/device/notification/rev221106/OdlDeviceNotificationData.java

1.724 mdsal-binding-dom-adapter 12.0.3

1.724.1 Available under license :

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Found in path(s):
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/module-info.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractDataObjectModification.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/LazyAugmentationModification.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataChangeListenerAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiRpcConsumerRegistry.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiNotificationPublishService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryResult.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-

jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiActionService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiMountPointService.java
*
/mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/ConstantAdapterContext.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiDataBroker.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/AdapterContext.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryResultSpliterator.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultValueMatch.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultComparableMatchBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/SimpleQueryExecutor.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultMatchBuilderPath.java
*
/mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/AdaptingTracker.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/QueryBuilderState.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/OSGiBlockingBindingNormalizer.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiActionProviderService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQuery.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/CurrentAdapterSerializer.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryFactory.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultValueMatchBuilder.java
*
/mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiRpcProviderService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/LambdaDecoder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiNotificationService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultDescendantQueryBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/AbstractAdaptedService.java

* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultStringMatchBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/query/AbstractValueMatchBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryResultItem.java
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Found in path(s):
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/RpcInvocationStrategy.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractRpcAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/RpcAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/InstanceNotificationPublishServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/InstanceNotificationServiceAdapter.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMRpcImplementationAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractLazySerializedEvent.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/PublisherAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractDOMRpcImplementationAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/LazyDOMRpcResultFuture.java

* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/FutureSchema.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/ContextReferenceExtractor.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/LazySerializedContainerNode.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/RpcServiceAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractBindingAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractBindingLoadingAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/DynamicBindingAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/ActionAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingOperationFluentFuture.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/RpcResultUtil.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/ActionProviderServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/ActionServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingAdapterFactory.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/package-info.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/ServiceProperties.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMRpcAdapterRegistration.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMReadTransactionAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMWriteTransactionAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractForwardedTransaction.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMTransactionChainAdapter.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingRpcAdapterRegistration.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataBrokerAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/ActionAdapterFilter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/SingleBindingDOMNotificationAdapter.java

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Found in path(s):
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingClusteredDOMDataTreeChangeListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/spi/AdapterFactory.java
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Found in path(s):
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataTreeChangeListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMRpcProviderServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/InstanceNotificationListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractInstanceNotificationListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/LazySerializedNotification.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AdapterBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/AdapterLoader.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMMountPointServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/LazySerializedInstanceNotification.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingMountPointAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-

jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDataTreeChangeListenerRegistration.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataTreeChangeServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/LazyDataTreeModification.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/LegacyDOMRpcImplementationAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMNotificationPublishServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMMountPointListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/LazyDataObjectModification.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMRpcServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMAdapterLoader.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMNotificationServiceAdapter.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMAdapterBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMNotificationListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingStructuralType.java
* /mdsal-binding-dom-adapter-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/adapter/KeyedInstanceNotificationListenerAdapter.java
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jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataTreeCommitCohortAdapter.java
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jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataTreeCommitCohortRegistryAdapter.java
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1.725 netty-threadgroup-config 0.19.3

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* /netty-threadgroup-config-0-19-3-sources-1-jar/org/opendaylight/controller/config/yang/netty/threadgroup/Configuration.java
* /netty-threadgroup-config-0-19-3-sources-1-jar/org/opendaylight/controller/config/yang/netty/threadgroup/GlobalWorkerGroup.java

1.726 yang-data-impl 11.0.4

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* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/InterningLeafSetNodeBuilder.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/codec/CompiledPatternContext.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int32StringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/Uint32StringCodec.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/codec/StringPatternCheckingCodec.java
*
 /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/codec/AbstractIntegerStringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/BooleanStringCodec.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/ResultAlreadySetException.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/BitsStringCodec.java

* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/StringStringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/EnumStringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/DecimalStringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/BinaryStringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int8StringCodec.java
*
/yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/UnionStringCodec.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/CloneableMap.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int64StringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/Uint64StringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int16StringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/EmptyStringCodec.java
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jar/org/opendaylight/yangtools/yang/data/impl/schema/NormalizationResultHolder.java
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jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableNormalizedMountPoint.java
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jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableNormalizedMountpoints.java
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jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/AbstractImmutableNormalizedValueNode.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/DataStringCodec.java
* /yang-data-impl-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/AbstractImmutableDataContainerNode.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableContainerNodeBuilder.java
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/yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableUserMapNodeBuilder.java
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jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableMapEntryNodeBuilder.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableLeafNodeBuilder.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableAnyXmlNodeBuilder.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/valid/DataNodeContainerValidator.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/codec/TypeDefinitionAwareCodec.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/AbstractImmutableDataContainerNodeBuilder.j
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jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableChoiceNodeBuilder.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/AbstractImmutableNormalizedSimpleValueNode.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableUnkeyedListEntryNodeBuilder.java
* /yang-data-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/AbstractImmutableNormalizedNodeBuilder.jav
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* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/schema/Builders.java
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jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/valid/DataValidationException.java
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* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/AbstractDataStringCodec.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableMetadataNormalizedNodeStreamWriter.java
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* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/schema/InterningLeafNodeBuilder.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableAnydataNodeBuilder.java
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* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/UnmodifiableChildrenMap.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/DeserializationException.java
* /yang-data-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/impl/codec/ValueWithQName.java

1.727 rfc8528-parser-support 11.0.4

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1.728 mdsal-dom-spi 12.0.3

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* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/AbstractDOMStoreTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreReadTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedReadTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreTransactionChain.java
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 /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataReadWriteTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedReadWriteTransaction.java

* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataWriteTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/DOMStore.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMNotificationPublishService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreThreePhaseCommitCohort.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMNotificationService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreReadWriteTransaction.java
*
 /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/AbstractSnapshotBackedTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataBroker.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/PingPongTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedWriteTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/AbstractPingPongTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/PingPongTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataReadOnlyTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreTransaction.java
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* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ContentRoutedRpcContext.java
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* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/SimpleDOMMountPoint.java

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* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedTransaction.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/SimpleDOMActionResult.java
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* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/DOMDataTreePrefixTableEntry.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/DOMDataTreePrefixTable.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/DOMNotificationSubscriptionListener.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcProviderService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedTransactions.java
*
 /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreTreeChangePublisher.java
* /mdsal-dom-spi-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/spi/AbstractDOMRpcImplementationRegistration.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/DefaultDOMRpcResult.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/RegistrationTreeNode.java
* /mdsal-dom-spi-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/spi/store/ForwardingDOMStoreThreePhaseCommitCohort.java
* /mdsal-dom-spi-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/spi/DOMNotificationSubscriptionListenerRegistry.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcImplementation.java
* /mdsal-dom-spi-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/spi/store/AbstractDOMStoreTreeChangePublisher.java
* /mdsal-dom-spi-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/spi/AbstractDOMDataTreeChangeListenerRegistration.java
*
 /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcResult.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/AbstractRegistrationTree.java

* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/AbstractDOMRpcProviderService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/RegistrationTreeSnapshot.java
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* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/PingPongMergingDOMDataBroker.java
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* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/FixedDOMSchemaService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/AbstractDOMSchemaService.java
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Found in path(s):
* /mdsal-dom-spi-12-0-3-sources-1-jar/module-info.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/query/DOMQueryMatcher.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/query/DOMQueryIterator.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/query/DOMQueryEvaluator.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMActionProviderService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMExtensibleService.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/query/LazyDOMQueryResult.java
* /mdsal-dom-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMActionService.java

1.729 yang-data-codec-gson 11.0.4

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* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/NullJSONCodec.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONCodecFactorySupplier.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/UnionJSONCodec.java
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* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JsonWriterFactory.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterSharedRootContext.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterExclusiveRootContext.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/EmptyJSONCodec.java
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* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterInvisibleContext.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONCodecFactory.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONInstanceIdentifierCodec.java
* /yang-data-codec-gson-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONNormalizedNodeStreamWriter.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterQNameContext.java
*
/yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterContext.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterRootContext.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/IdentityrefJSONCodec.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/AbstractJSONCodec.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterNamedObjectContext.java
* /yang-data-codec-gson-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONCodec.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JsonParserStream.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/NumberJSONCodec.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/QuotedJSONCodec.java
*
/yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterObjectContext.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/BooleanJSONCodec.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterURIContext.java
* /yang-data-codec-gson-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/gson/JSONStreamWriterListContext.java

1.730 rfc8341 6.0.5

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*
* <p>

```
* This class represents the following YANG schema fragment defined in module <b>ietf-netconf-acm</b>
* <pre>
* module ietf-netconf-acm {
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-acm;
*   prefix nacm;
*   import ietf-yang-types {
*     prefix yang;
*   }
*   revision 2018-02-14 {
*   }
*   revision 2012-02-22 {
*   }
 *   extension default-deny-write {
*   }
*   extension default-deny-all {
*   }
*   typedef user-name-type {
*     type string {
*       length 1..max;
*     }
*   }
*   typedef matchall-string-type {
*     type string {
*       pattern \*;
*     }
*   }
*   typedef access-operations-type {
*     type bits {
*       bit create {
*       }
*       bit read {
*       }
*       bit update {
*       }
*       bit delete {
*       }
*       bit exec {
*       }
*     }
*   }
*   typedef group-name-type {
*     type string {
*       length 1..max;
*       pattern [^\*].*;
*     }
*   }
*   typedef action-type {
*     type enumeration {
```

```
*       enum permit {
*       }
*       enum deny {
*       }
*     }
*   }
*   typedef node-instance-identifier {
*     type yang:xpath1.0;
*   }
*   container nacm {
*     nacm:default-deny-all;
*     leaf enable-nacm {
*       type boolean;
*       default true;
*     }
*     leaf read-default {
*       type
 action-type;
*       default permit;
*     }
*     leaf write-default {
*       type action-type;
*       default deny;
*     }
*     leaf exec-default {
*       type action-type;
*       default permit;
*     }
*     leaf enable-external-groups {
*       type boolean;
*       default true;
*     }
*     leaf denied-operations {
*       type yang:zero-based-counter32;
*       config false;
*     }
*     leaf denied-data-writes {
*       type yang:zero-based-counter32;
*       config false;
*     }
*     leaf denied-notifications {
*       type yang:zero-based-counter32;
*       config false;
*     }
*     container groups {
*       list group {
*         key name;
*         leaf name {
```

```
*          type group-name-type;
*        }
*        leaf-list user-name {
*          type user-name-type;
*        }
*      }
*    }
*    list rule-list {
*      key name;
*      ordered-by user;
*      leaf name {
*        type string {
*
    length 1..max;
*        }
*      }
*      leaf-list group {
*        type union {
*          type matchall-string-type;
*          type group-name-type;
*        }
*      }
*      list rule {
*        key name;
*        ordered-by user;
*        leaf name {
*          type string {
*            length 1..max;
*          }
*        }
*        leaf module-name {
*          type union {
*            type matchall-string-type;
*            type string;
*          }
*          default *;
*        }
*        choice rule-type {
*          case protocol-operation {
*            leaf rpc-name {
*              type union {
*                type matchall-string-type;
*                type string;
*              }
*            }
*          }
*          case notification {
*            leaf notification-name {
```

```
*              type union {
*                type matchall-string-type;
*                type string;
*
      }
*           }
*         }
*         case data-node {
*           leaf path {
*             type node-instance-identifier;
*           }
*         }
*       }
*       leaf access-operations {
*         type union {
*           type matchall-string-type;
*           type access-operations-type;
*         }
*         default *;
*       }
*       leaf action {
*         type action-type;
*       }
*       leaf comment {
*         type string;
*       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8341-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/IetfNetconfAcmData.java
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* /rfc8341-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/RuleListGroupBuilder.java
* /rfc8341-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/rule/list/rule/rule/type/NotificationNotificationNameBuilder.java
* /rfc8341-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/rule/list/RuleAccessOperationsBuilder.java
*
 /rfc8341-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/rule/list/rule/rule/type/ProtocolOperationRpcNameBuilder.java
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1.731 mdsal-dom-schema-osgi 12.0.3

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* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/RegularYangModuleInfoRegistry.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/YangModuleInfoScanner.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/OSGiDOMSchemaService.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/YangModuleInfoRegistry.java
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* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/ModelGenerationAware.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/OSGiModuleInfoSnapshotImpl.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/OSGiModelRuntime.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/EffectiveModelContextImpl.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/OSGiModuleInfoSnapshot.java
* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/KarafYangModuleInfoRegistry.java
*
 /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/KarafFeaturesSupport.java
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* /mdsal-dom-schema-osgi-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-dom-schema-osgi/pom.xml

1.732 yang-model-export 11.0.4

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* /yang-model-export-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/export/YangTextSnippetIterator.java
* /yang-model-export-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/export/ModuleNamespaceContext.java
* /yang-model-export-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/export/YinXMLEventReaderFactory.java
* /yang-model-export-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/export/YinXMLEventReader.java
* /yang-model-export-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/export/YangTextSnippet.java
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1.733 rfc8528-model-api 11.0.4

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Found in path(s):
* /rfc8528-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8528/model/api/MountPointStatement.java
* /rfc8528-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8528/model/api/SchemaMountStatements.java
* /rfc8528-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8528/model/api/MountPointEffectiveStatement.java
* /rfc8528-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8528/model/api/SchemaMountConstants.java
* /rfc8528-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8528/model/api/MountPointSchemaNode.java
* /rfc8528-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8528/model/api/package-info.java
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1.734 yang-binding 12.0.3

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* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/BaseNotification.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/EventInstantAware.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/AbstractOpaqueObject.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/OpaqueData.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/Annotation.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/AbstractOpaqueData.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/AbstractAugmentable.java
*
 /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/AnnotationAware.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/InstanceNotification.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/KeyedListNotification.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/OpaqueObject.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/ValueAware.java
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* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/EnumTypeObject.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/RegexPatterns.java
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* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/NotificationListener.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/contract/Naming.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/YangModuleInfo.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/BaseIdentity.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/Notification.java
*
 /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/RpcService.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/Augmentation.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/ChildOf.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/InstanceIdentifier.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/DataObject.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/Key.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/KeyAware.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/package-info.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/DataContainer.java
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* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/KeyedInstanceIdentifierV2.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/RpcOutput.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/InstanceIdentifierV3.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/KeyedListAction.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/Action.java
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* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/YangFeature.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/UnionTypeObject.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/BindingContract.java
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* /yang-binding-12-0-3-sources-1-jar/module-info.java
* /yang-binding-12-0-3-sources-1-jar/org/opendaylight/yangtools/yang/binding/util/BindingMap.java

1.735 sal-cluster-admin-api 8.0.3

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1.736 aaa-password-service-api 0.18.3

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* /aaa-password-service-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/password/service/PasswordHash.java

1.737 mdsal-binding-dom-codec-spi 12.0.3

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* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/BindingDOMCodecServices.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/module-info.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/AbstractBindingNormalizedNodeSerializer.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/BindingDOMCodecFactory.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/ForwardingBindingDOMCodecServices.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/LazyActionInputContainerNode.java
*
 /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/LazyActionOutputContainerNode.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/AbstractLazyActionContainerNode.java
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* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/AbstractBindingLazyContainerNode.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/spi/BindingSchemaMapping.java

1.738 web-api 0.18.3

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* /web-api-0-18-3-sources-1-jar/org/opendaylight/aaa/web/WebServer.java
* /web-api-0-18-3-sources-1-jar/org/opendaylight/aaa/web/WebContextSecurer.java
* /web-api-0-18-3-sources-1-jar/org/opendaylight/aaa/web/ServletDetails.java
* /web-api-0-18-3-sources-1-jar/org/opendaylight/aaa/web/WebContext.java
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1.739 yang-data-api 11.0.4

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* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint32Codec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/InstanceIdentifierCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/DecimalCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Int8Codec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Int64Codec.java

*
/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/UnionCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/SystemLeafSetNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/UnkeyedListNode.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/DOMSourceAnyxmlNode.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedNodeStreamWriter.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/EnumCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/StringCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/IdentityrefCodec.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedNodeWriter.java
*
/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/DataContainerChild.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint64Codec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/LeafSetNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/BooleanCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/BinaryCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/tree/StoreTreeNodes.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/ChoiceNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/MapNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/LeafrefCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Int16Codec.java
*
/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/EmptyCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint16Codec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedNodes.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/UserLeafSetNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/BitsCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/tree/StoreTreeNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/ContainerNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Int32Codec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint8Codec.java
*
/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/MixinNode.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/OrderedNodeContainer.java
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jar/org/opendaylight/yangtools/yang/data/api/schema/builder/NormalizedNodeContainerBuilder.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/builder/ListNodeBuilder.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/builder/DataContainerNodeBuilder.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/builder/NormalizedNodeBuilder.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/builder/CollectionNodeBuilder.java
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* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/MountPointNormalizedNodeWriter.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/codec/IllegalArgumentCodec.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/MetadataNormalizedAnydata.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/AnydataNormalizationException.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/ReusableStreamReceiver.java
*
 /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/AnyxmlNode.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/codec/AbstractIllegalArgumentCodec.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/NIVv1.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedNodeStreamWriterMetadataDecorator.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedMetadata.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/ImmutableNormalizedAnydata.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/NIv1.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/codec/YangInvalidValueException.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/YIDv1.java
*

/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/NIPv2.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedMetadataWriter.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizableAnydata.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/AnydataNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedAnydata.java
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* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/LoggingNormalizedNodeStreamWriter.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/AbstractIndentingNormalizedNodeStreamWriter.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/StackedReversePathArguments.java
*
/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/FixedYangInstanceIdentifier.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/DuplicateEntry.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/PathArgumentList.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/DuplicateFinder.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/YangInstanceIdentifierBuilder.java
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* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/DSIv1.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/DatastoreIdentifier.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/EmptyMountPointContext.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/MountPointChild.java
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* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/DistinctNodeContainer.java
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* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/DistinctContainer.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/MountPointException.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedData.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedMountPoint.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedTuple.java
*
/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedContainer.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedMountpoints.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/OrderedContainer.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedYangData.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/DataContainer.java
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jar/org/opendaylight/yangtools/yang/data/api/schema/UnkeyedListEntryNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/UserMapNode.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/SystemMapNode.java
* /yang-data-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedNodeContainer.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/DataContainerNode.java
*
/yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/YangInstanceIdentifier.java
* /yang-data-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/api/schema/LeafSetEntryNode.java

1.740 rfc8819-parser-support 11.0.4

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* /rfc8819-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/parser/RefModuleTagStatement.java
* /rfc8819-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/parser/ModuleTagStatementSupport.java
* /rfc8819-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8819/parser/ModuleTagEffectiveStatementImpl.java
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1.741 yang-repo-api 11.0.4

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* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/YinDomSchemaSource.java
* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/YinTextSchemaSource.java
* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/YinSchemaSourceRepresentation.java
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* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaRepository.java
* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/YangTextSchemaSource.java
* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaResolutionException.java
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* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/MissingSchemaSourceException.java
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* /yang-repo-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/api/DelegatedYangTextSchemaSource.java

1.742 mdsal-binding-model-ri 12.0.3

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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/MethodSignatureBuilderImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractTypeMember.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/CodegenGeneratedTOBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/CodegenGeneratedTypeBuilder.java
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 /mdsal-binding-model-ri-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/ri/BindingTypes.java
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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/ConstantImpl.java
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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/GeneratedPropertyImpl.java
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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractGeneratedType.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/MethodSignatureImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/GeneratedPropertyBuilderImpl.java
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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractGeneratedTOBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractGeneratedTypeBuilder.java
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 /mdsal-binding-model-ri-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/model/ri/BaseYangTypes.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/MethodParameterImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-1-

jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AnnotationTypeBuilderImpl.java
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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/CodegenEnumerationBuilder.java
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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractEnumerationBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/RuntimeEnumerationBuilder.java
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jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/RuntimeGeneratedTypeBuilder.java

1.743 yang-data-tree-ri 11.0.4

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jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeSnapshotCursor.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/MinMaxElementsValidation.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefContextTreeBuilder.java

* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/QNamePredicateBuilder.java
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 /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefValidation.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefUtils.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractDataTreeTip.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefPath.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractCursor.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/ChildTrackingPolicy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/CaseEnforcer.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/QNamePredicate.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeModificationCursor.java
*
 /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefDataValidationFailedException.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/MaterializedMutableContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/QNameWithPredicate.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/ContainerModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefContextBuilder.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefPathParserImpl.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/LazyContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/LazyMutableContainerNode.java
*
 /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractCursorAware.java
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* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefContext.java
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* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/leafref/SimpleQNameWithPredicate.java
* /yang-data-tree-ri-11-0-4-sources-1-
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jar/org/opendaylight/yangtools/yang/data/tree/impl/MapEntryModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/LatestOperationHolder.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/SchemaAwareApplyOperation.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/ModificationApplyOperation.java
*
 /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/DataNodeContainerModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/DataTreeState.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/ValueNodeModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/OperationWithModification.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTree.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/node/AbstractMutableContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/ModifiedNode.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/NoopDataTreeCandidate.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/TreeNode.java
*
 /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/RootApplyStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/impl/ChoiceModificationStrategy.java

* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/LeafSetModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/ListModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/MandatoryLeafEnforcer.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/NotUpgradableRootApplyStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/AbstractModifiedContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractDataTreeCandidate.java
*
 /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/AbstractContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractNodeContainerModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/MutableTreeNode.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeModification.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/SimpleContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/di/InMemoryDataTreeFactory.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeCandidate.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeSnapshot.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/MaterializedContainerNode.java
*
 /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/Version.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/LogicalOperation.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/NodeModification.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/ValueNode.java
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* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/ValidatedTreeNode.java

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* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/MapModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/NormalizedNodeContainerSupport.java
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* /yang-data-tree-ri-11-0-4-sources-1-jar/module-info.java
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Found in path(s):
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractModifiedNodeBasedCandidateNode.java
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Found in path(s):
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/UniqueValidation.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/BinaryValue.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/UniqueValidator.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/ExcludedDataSchemaNodeException.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/MinMaxElementsValidationFailedException.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/UniqueValidationFailedException.java
*
 /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/UniqueValues.java
* /yang-data-tree-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractValidation.java

1.744 rfc8525 12.0.3

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Found in path(s):
* /rfc8525-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc8525/pom.xml
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/**
* This module provides information about the YANG modules, datastores, and

* datastore schemas used by a network management server. The key words 'MUST',
* 'MUST NOT', 'REQUIRED', 'SHALL', 'SHALL NOT', 'SHOULD', 'SHOULD NOT',
* 'RECOMMENDED', 'NOT RECOMMENDED', 'MAY', and 'OPTIONAL' in this document are to
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* This version of this YANG module is part of RFC 8525; see the
 RFC itself for
* full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-yang-library
* <pre>
* module ietf-yang-library {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-yang-library;
*   prefix yanglib;
*   import ietf-yang-types {
*   prefix yang;
*   }
*   import ietf-inet-types {
*   prefix inet;
*   }
*   import ietf-datastores {
*   prefix ds;
*   }
*   revision 2019-01-04 {
*   }
*   revision 2016-04-09 {
*   }
*   typedef revision-identifier {
*   type string {
*   pattern "\d{4}-\d{2}-\d{2}";
*   }
*   }
*   grouping module-identification-leafs {
*   leaf name {
*   type yang:yang-identifier;
*   }
*   leaf revision {
*   type revision-identifier;
*   }
*   }
*   grouping location-leaf-list {

```
*     leaf-list location {
*       type inet:uri;
*     }
*   }
*   grouping module-implementation-parameters {
*     leaf-list feature
 {
*       type yang:yang-identifier;
*     }
*     leaf-list deviation {
*       type leafref {
*         path ../../module/name;
*       }
*     }
*   }
*   grouping module-set-parameters {
*     leaf name {
*       type string;
*     }
*     list module {
*       key name;
*       uses module-identification-leafs;
*       leaf namespace {
*         type inet:uri;
*       }
*       uses location-leaf-list;
*       list submodule {
*         key name;
*         uses module-identification-leafs;
*         uses location-leaf-list;
*       }
*       uses module-implementation-parameters;
*     }
*     list import-only-module {
*       key "name revision";
*       leaf name {
*         type yang:yang-identifier;
*       }
*       leaf revision {
*         type union {
*           type revision-identifier;
*           type string {
*             length 0;
*           }
*         }
*       }
*       leaf namespace {
*         type inet:uri;
```

```
*
   }
*      uses location-leaf-list;
*      list submodule {
*        key name;
*        uses module-identification-leafs;
*        uses location-leaf-list;
*      }
*    }
*  }
*  grouping yang-library-parameters {
*    list module-set {
*      key name;
*      uses module-set-parameters;
*    }
*    list schema {
*      key name;
*      leaf name {
*        type string;
*      }
*      leaf-list module-set {
*        type leafref {
*          path ../../module-set/name;
*        }
*      }
*    }
*    list datastore {
*      key name;
*      leaf name {
*        type ds:datastore-ref;
*      }
*      leaf schema {
*        type leafref {
*          path ../../schema/name;
*        }
*      }
*    }
*  }
*  container yang-library {
*    config false;
*    uses yang-library-parameters;
*    leaf content-id {
*      type string;
*    }
*  }
*  notification yang-library-update {
*    leaf content-id
```

```
 {
*       type leafref {
*         path /yanglib:yang-library/yanglib:content-id;
*       }
*     }
*   }
*   grouping module-list {
*     status deprecated;
*     grouping common-leafs {
*       status deprecated;
*       leaf name {
*         type yang:yang-identifier;
*         status deprecated;
*       }
*       leaf revision {
*         type union {
*           type revision-identifier;
*           type string {
*             length 0;
*           }
*         }
*         status deprecated;
*       }
*     }
*     grouping schema-leaf {
*       status deprecated;
*       leaf schema {
*         type inet:uri;
*       }
*     }
*     list module {
*       key "name revision";
*       status deprecated;
*       uses common-leafs {
*         status deprecated;
*       }
*       uses schema-leaf {
*         status deprecated;
*       }
*       leaf namespace {
*         type inet:uri;
*         status deprecated;
*       }
*       leaf-list
 feature {
*         type yang:yang-identifier;
*         status deprecated;
*       }
```

```
*       list deviation {
*         key "name revision";
*         status deprecated;
*         uses common-leafs {
*           status deprecated;
*         }
*       }
*       leaf conformance-type {
*         type enumeration {
*           enum implement {
*           }
*           enum import {
*           }
*         }
*         status deprecated;
*       }
*       list submodule {
*         key "name revision";
*         status deprecated;
*         uses common-leafs {
*           status deprecated;
*         }
*         uses schema-leaf {
*           status deprecated;
*         }
*       }
*     }
*   }
*   container modules-state {
*     config false;
*     status deprecated;
*     leaf module-set-id {
*       type string;
*       status deprecated;
*     }
*     uses module-list {
*       status deprecated;
*     }
*   }
*   notification yang-library-change
 {
*     status deprecated;
*     leaf module-set-id {
*       type leafref {
*         path /yanglib:modules-state/yanglib:module-set-id;
*       }
*       status deprecated;
*     }
```

*   }
* }
* </pre>
*
*/

Found in path(s):
* /rfc8525-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/library/rev190104/IetfYangLibraryData.java
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* /rfc8525-12-0-3-sources-1-jar/META-INF/yang/ietf-yang-library@2019-01-04.yang
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Found in path(s):
* /rfc8525-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/library/rev190104/LegacyRevisionUtils.java

1.745 mdsal-binding-generator 12.0.3

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* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/UsesAugmentGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/GeneratorResult.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/module-info.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/DefaultBindingGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/DefaultBindingRuntimeGenerator.java
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* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/FallbackCamelCaseNamingStrategy.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ResistedCamelCaseNamingStrategy.java
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* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/BindingGeneratorUtil.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/SerialVersionHelper.java
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* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/di/SingletonBindingRuntimeGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractCompositeGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ModuleGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractImplicitGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractAugmentGenerator.java
*
 /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/NotificationServiceGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ModuleAugmentGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultIdentityRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/AbstractCompositeRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultKeyRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractDependentGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultYangDataRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/BindingRuntimeTypesFactory.java

*
/mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ClassPlacement.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultAnydataRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultInputRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/TypeReference.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultContainerRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ChoiceGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ListGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CamelCaseWithNamespaceNamingStrategy.java
*
/mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/AbstractRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/TypeBuilderFactory.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultLeafRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/GeneratedUnionBuilder.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/OperationContainerGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CamelCaseNamingStrategy.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultAnyxmlRuntimeType.java
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/mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/OpaqueObjectGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultOutputRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/MatchStrategy.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/GeneratorContext.java
* /mdsal-binding-generator-12-0-3-sources-1-
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* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/RpcServiceGenerator.java
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jar/org/opendaylight/mdsal/binding/generator/impl/rt/AbstractObjectRuntimeType.java
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jar/org/opendaylight/mdsal/binding/generator/impl/reactor/LeafGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/GeneratorReactor.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ClassNamingStrategy.java
* /mdsal-binding-generator-12-0-3-sources-1-
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jar/org/opendaylight/mdsal/binding/generator/impl/reactor/LeafListGenerator.java
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jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultLeafListRuntimeType.java
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jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultListRuntimeType.java
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jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractExplicitGenerator.java
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* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/KeyGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/StatementNamespace.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/YangDataGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractTypeAwareGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CollisionDomain.java

* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultAugmentRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/TypedefGenerator.java
*
 /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/GroupingGenerator.java
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* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/OutputGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/AbstractAugmentableRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AugmentRequirement.java
*
 /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultChoiceRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractInvokableGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/LinkageProgress.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultRpcRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CompositeRuntimeTypeBuilder.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/InputGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/AbstractGeneratedRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/tree/StatementRepresentation.java
*

/mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/TargetAugmentEffectiveStatement.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultTypedefRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/InvokableRuntimeTypeBuilder.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CompositeSchemaTreeGenerator.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultFeatureRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/OriginalLink.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/tree/package-info.java
* /mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultCaseRuntimeType.java
*
/mdsal-binding-generator-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AugmentResolver.java

1.746 yang-parser-reactor 11.0.4

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jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/UndeclaredStmtCtx.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/ForwardingUndeclaredCurrent.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/OriginalStmtCtx.java
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jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/InferredStatementContext.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/ReactorStmtCtx.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/AbstractResumedStatement.java
* /yang-parser-reactor-11-0-4-sources-1-jar/module-info.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/ReplicaStatementContext.java
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jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/CrossSourceStatementReactor.java
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jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/RootStatementContext.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/SourceSpecificContext.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/StatementContextWriter.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/SubstatementContext.java
*
 /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/StatementContextBase.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/ReactorDeclaredModel.java
* /yang-parser-reactor-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/StatementDefinitionContext.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/BuildGlobalContext.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/NamespaceAccess.java
* /yang-parser-reactor-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/EffectiveSchemaContext.java
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1.747 mdsal-eos-common-spi 12.0.3

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1.748 mdsal-common-api 12.0.3

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* /mdsal-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/common/api/PostCanCommitStep.java
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1.749 rfc6643-parser-support 11.0.4

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* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/RefSubIdStatement.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/RefDefValStatement.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/RefAliasStatement.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/RefOidStatement.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/RefImpliedStatement.java
*
 /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/RefDisplayHintStatement.java
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Found in path(s):
* /rfc6643-parser-support-11-0-4-sources-1-jar/module-info.java
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Found in path(s):
* /rfc6643-parser-support-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/rfc6643-parser-support/pom.xml
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Found in path(s):
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/AliasEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/OidStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/OidStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/DefValStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/MaxAccessStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/SubIdStatementImpl.java
*
 /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/MaxAccessStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/DisplayHintStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/AliasStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/OidEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/DisplayHintEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/ImpliedEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/SubIdStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-1-

jar/org/opendaylight/yangtools/rfc6643/parser/MaxAccessEffectiveStatementImpl.java
*
/rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/DefValStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/parser/DefValEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/parser/DisplayHintStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/parser/SubIdEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6643/parser/AliasStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/parser/ImpliedStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6643/parser/ImpliedStatementSupport.java

1.750 rfc8040-ietf-restconf-monitoring 6.0.5

1.750.1 Available under license :

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Found in path(s):
* /rfc8040-ietf-restconf-monitoring-6-0-5-sources-1-jar/META-
INF/maven/org.opendaylight.netconf.model/rfc8040-ietf-restconf-monitoring/pom.xml
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```
module ietf-restconf-monitoring {
   namespace "urn:ietf:params:xml:ns:yang:ietf-restconf-monitoring";
   prefix "rcmon";

   import ietf-yang-types { prefix yang; }
   import ietf-inet-types { prefix inet; }

   organization
     "IETF NETCONF (Network Configuration) Working Group";

   contact
     "WG Web:   <https://datatracker.ietf.org/wg/netconf/>
      WG List:  <mailto:netconf@ietf.org>
```

```
    Author:   Andy Bierman
              <mailto:andy@yumaworks.com>

    Author:   Martin Bjorklund
              <mailto:mbj@tail-f.com>

    Author:   Kent Watsen
              <mailto:kwatsen@juniper.net>";

  description
    "This module contains monitoring information for the
    RESTCONF protocol.

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    This version of this YANG module is part of RFC 8040; see
    the RFC itself for full legal notices.";

  revision 2017-01-26 {
    description
      "Initial revision.";
    reference
      "RFC 8040: RESTCONF Protocol.";
  }

  container restconf-state {
    config false;
    description
      "Contains RESTCONF protocol monitoring information.";

    container capabilities {
      description
        "Contains a list of protocol capability URIs.";

      leaf-list capability {
        type inet:uri;
        description
          "A RESTCONF protocol capability URI.";
      }
```

```
    }

    container streams {

   description
       "Container representing the notification event streams
        supported by the server.";
      reference
        "RFC 5277, Section 3.4, <streams> element.";

     list stream {
       key name;
       description
         "Each entry describes an event stream supported by
          the server.";

       leaf name {
         type string;
         description
           "The stream name.";
         reference
           "RFC 5277, Section 3.4, <name> element.";
       }

       leaf description {
         type string;
         description
           "Description of stream content.";
         reference
           "RFC 5277, Section 3.4, <description> element.";
       }

       leaf replay-support {
         type boolean;
         default false;
         description
           "Indicates if replay buffer is supported for this stream.
            If 'true',
then the server MUST support the 'start-time'
            and 'stop-time' query parameters for this stream.";
         reference
           "RFC 5277, Section 3.4, <replaySupport> element.";
       }

       leaf replay-log-creation-time {
         when "../replay-support" {
           description
             "Only present if notification replay is supported.";
```

```
        }
        type yang:date-and-time;
        description
          "Indicates the time the replay log for this stream
           was created.";
        reference
          "RFC 5277, Section 3.4, <replayLogCreationTime>
           element.";
      }

      list access {
        key encoding;
        min-elements 1;
        description
          "The server will create an entry in this list for each
           encoding format that is supported for this stream.
           The media type 'text/event-stream' is
expected
           for all event streams.  This list identifies the
           subtypes supported for this stream.";

        leaf encoding {
          type string;
          description
            "This is the secondary encoding format within the
             'text/event-stream' encoding used by all streams.
             The type 'xml' is supported for XML encoding.
             The type 'json' is supported for JSON encoding.";
        }

        leaf location {
          type inet:uri;
          mandatory true;
          description
            "Contains a URL that represents the entry point
             for establishing notification delivery via
             server-sent events.";
        }
      }
    }
  }
}
```

Found in path(s):
* /rfc8040-ietf-restconf-monitoring-6-0-5-sources-1-jar/META-INF/yang/ietf-restconf-monitoring@2017-01-26.yang

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```
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* of RFC 8040; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-restconf-monitoring</b>
* <pre>
* module ietf-restconf-monitoring {
*   namespace urn:ietf:params:xml:ns:yang:ietf-restconf-monitoring;
*   prefix rcmon;
*   import ietf-yang-types {
*     prefix yang;
*   }
*   import ietf-inet-types
 {
*     prefix inet;
*   }
*   revision 2017-01-26 {
*   }
*   container restconf-state {
*     config false;
*     container capabilities {
*       leaf-list capability {
*         type inet:uri;
*       }
*     }
*     container streams {
*       list stream {
*         key name;
*         leaf name {
*           type string;
*         }
*         leaf description {
*           type string;
*         }
*         leaf replay-support {
*           type boolean;
*           default false;
*         }
*         leaf replay-log-creation-time {
```

```
*           when ../replay-support {
*           }
*           type yang:date-and-time;
*         }
*         list access {
*           key encoding;
*           min-elements 1;
*           leaf encoding {
*             type string;
*           }
*           leaf location {
*             type inet:uri;
*           }
*         }
*       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8040-ietf-restconf-monitoring-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/restconf/monitoring/rev170126/IetfRestconfMonitoringData.java

1.751 yang-ext 2013.09.07.24.3

1.751.1 Available under license :

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*
* <p>
* This class represents the following YANG schema fragment defined in module <b>yang-ext</b>
* <pre>
* module yang-ext {
*   yang-version 1;
*   namespace urn:opendaylight:yang:extension:yang-ext;
*   prefix ext;
*   revision 2013-07-09 {
*   }
```

```
*   extension augment-identifier {
*     argument identifier;
*   }
*   extension mount {
*   }
*   grouping rpc-context-ref {
*     leaf context-instance {
*       type instance-identifier;
*     }
*   }
*   extension rpc-context-instance {
*     argument context-type;
*   }
*   extension context-reference {
*     argument context-type;
*   }
*
 extension context-instance {
*     argument context-type;
*   }
*   extension instance-target {
*     argument path;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /yang-ext-2013-09-07-24-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/yang/extension/yang/ext/rev130709/YangExtData.java
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```

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```

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1.752 rfc7952 12.0.3

1.752.1 Available under license :

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* This YANG module defines an 'extension' statement that allows for defining
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* of RFC 7952 (http://www.rfc-editor.org/info/rfc7952); see the RFC itself for
* full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-yang-metadata
* <pre>
* module ietf-yang-metadata {
*   namespace urn:ietf:params:xml:ns:yang:ietf-yang-metadata;
*   prefix md;
*   revision 2016-08-05
 {
*   }
*   extension annotation {
*   argument name;
*   }
* }
* </pre>
*
*/

Found in path(s):
* /rfc7952-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/metadata/rev160805/IetfYangMetadataData.java
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* /rfc7952-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc7952/pom.xml
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```
module ietf-yang-metadata {

 namespace "urn:ietf:params:xml:ns:yang:ietf-yang-metadata";

 prefix "md";

 organization
  "IETF NETMOD (NETCONF Data Modeling Language) Working Group";

 contact
  "WG Web:   <https://datatracker.ietf.org/wg/netmod/>

   WG List:  <mailto:netmod@ietf.org>

   WG Chair: Lou Berger
             <mailto:lberger@labn.net>

   WG Chair: Kent Watsen
             <mailto:kwatsen@juniper.net>

   Editor:   Ladislav Lhotka
             <mailto:lhotka@nic.cz>";

 description
  "This YANG module defines an 'extension' statement that allows
   for defining metadata annotations.

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   (http://www.rfc-editor.org/info/rfc7952); see the RFC itself
```

```
   for full legal notices.";

 revision 2016-08-05 {
  description
    "Initial revision.";
  reference
    "RFC 7952: Defining and Using Metadata with YANG";
 }

 extension annotation {
  argument name;
  description
    "This extension allows for defining metadata annotations in
     YANG modules.  The 'md:annotation' statement can appear only
     at the top level of a YANG module or submodule, i.e., it
     becomes a new alternative in the ABNF production rule for
     'body-stmts' (Section 14 in RFC 7950).

     The argument of the 'md:annotation' statement defines the name
     of the annotation.  Syntactically, it is a YANG identifier as
     defined in Section 6.2 of RFC
 7950.

     An annotation defined with this 'extension' statement inherits
     the namespace and other context from the YANG module in which
     it is defined.

     The data type of the annotation value is specified in the same
     way as for a leaf data node using the 'type' statement.

     The semantics of the annotation and other documentation can be
     specified using the following standard YANG substatements (all
     are optional): 'description', 'if-feature', 'reference',
     'status', and 'units'.

     A server announces support for a particular annotation by
     including the module in which the annotation is defined among
     the advertised YANG modules, e.g., in a NETCONF <hello>
     message or in the YANG library (RFC 7950).  The annotation can
     then be attached to any instance of a data node defined in any
     YANG module that is advertised by the server.

     XML encoding and JSON encoding of annotations are defined in
      RFC 7952.";
 }
 }
```

Found in path(s):

* /rfc7952-12-0-3-sources-1-jar/META-INF/yang/ietf-yang-metadata@2016-08-05.yang

1.753 openconfig-parser-support 11.0.4

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Found in path(s):
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigHashedValueEffectiveStatementImpl.java
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/RefOpenConfigVersionStatement.java
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/RefOpenConfigHashedValueStatement.java
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigHashedValueStatementImpl.java
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Found in path(s):

* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigVersionStatementImpl.java
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigVersionEffectiveStatementImpl.java
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Found in path(s):
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/HashedValueStatementSupport.java
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigVersionSupport.java
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/AbstractHashedValueStatementSupport.java
* /openconfig-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/parser/EncryptedValueStatementSupport.java

1.754 mdsal-dom-broker 12.0.3

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*/

Found in path(s):
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/AbstractDOMForwardedTransaction.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/CommitCoordinationTask.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMDataBrokerTransactionChainImpl.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/SerializedDOMDataBroker.java
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* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMForwardedReadWriteTransaction.java
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* /mdsal-dom-broker-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-dom-broker/pom.xml

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* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/OSGiDOMActionService.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/OSGiDOMRpcProviderService.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMRpcRouterServices.java
* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/OSGiDOMActionProviderService.java
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jar/org/opendaylight/mdsal/dom/broker/AbstractDOMRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/AbstractDOMRoutingTable.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMActionRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMActionRoutingTable.java
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* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/TransactionCommitFailedExceptionMapper.java
* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/DOMForwardedWriteTransaction.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMNotificationRouterEvent.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMMountPointServiceImpl.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMNotificationRouter.java
*
 /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/AbstractDOMForwardedTransactionFactory.java
* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/DOMForwardedReadOnlyTransaction.java
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* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/RoutedDOMRpcRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/GlobalDOMRpcRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/UnknownDOMRpcRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/broker/AbstractDOMRpcRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/broker/DOMRpcRouter.java

1.755 blueprint 8.0.3

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* /whiteboard-blueprint-8-0-3-sources-1-jar/org/ops4j/pax/web/extender/samples/whiteboard/internal/ExceptionServlet.java

* /whiteboard-blueprint-8-0-3-sources-1-jar/org/ops4j/pax/web/extender/samples/whiteboard/internal/WhiteboardFilter.java
*
 /whiteboard-blueprint-8-0-3-sources-1-jar/org/ops4j/pax/web/extender/samples/whiteboard/internal/WhiteboardServlet.java
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* /whiteboard-blueprint-8-0-3-sources-1-jar/jsp/using-tld.jsp
* /whiteboard-blueprint-8-0-3-sources-1-jar/404.html
* /whiteboard-blueprint-8-0-3-sources-1-jar/welcome.html
* /whiteboard-blueprint-8-0-3-sources-1-jar/jsp/simple.jsp
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* /whiteboard-blueprint-8-0-3-sources-1-jar/org/ops4j/pax/web/extender/samples/whiteboard/internal/WhiteboardContext.java

1.756 mdsal-binding-loader 12.0.3

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* /mdsal-binding-loader-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/loader/package-info.java
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1.757 aaa-encrypt-service-impl 0.18.3

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1.758 odlext-parser-support 11.0.4

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* /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/ContextReferenceStatementSupport.java
* /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/RefAugmentIdentifierStatement.java
* /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/InstanceTargetStatementImpl.java
*
 /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/AugmentIdentifierEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/MountEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/RpcContextReferenceStatementSupport.java
* /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/ContextReferenceStatementImpl.java
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jar/org/opendaylight/yangtools/odlext/parser/ContextInstanceStatementImpl.java
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jar/org/opendaylight/yangtools/odlext/parser/MountStatementSupport.java
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jar/org/opendaylight/yangtools/odlext/parser/RefContextInstanceStatement.java
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/odlext-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/odlext/parser/ContextInstanceStatementSupport.java
* /odlext-parser-support-11-0-4-sources-1-
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jar/org/opendaylight/yangtools/odlext/parser/RefContextReferenceStatement.java
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jar/org/opendaylight/yangtools/odlext/parser/RefInstanceTargetStatement.java
* /odlext-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/parser/MountStatementImpl.java
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* /odlext-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/odlext/parser/InstanceTargetStatementSupport.java
*
/odlext-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/odlext/parser/RpcContextReferenceEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/odlext/parser/AbstractIdentityAwareStatementSupport.java
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1.759 openconfig-model-api 11.0.4

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* /openconfig-model-api-11-0-4-sources-1-jar/module-info.java
* /openconfig-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigRegexpPosixStatement.java
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* /openconfig-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigStatements.java
* /openconfig-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigVersionStatement.java
* /openconfig-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigHashedValueSchemaNode.java
*
 /openconfig-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigVersionEffectiveStatement.java
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1.760 yang-model-ri 11.0.4

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* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefSubmoduleStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefDefaultStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefYangVersionStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefPrefixStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefAugmentStatement.java
*
 /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefDeviateStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefErrorMessageStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefIfFeatureStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefUniqueStatement.java
* /yang-model-ri-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/ref/RefDescriptionStatement.java
* /yang-model-ri-11-0-4-sources-1-
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* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/type/ResolvedRangeConstraint.java
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* /yang-model-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/ri/type/AbstractRangeRestrictedDerivedType.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/type/RestrictedInt8Type.java
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* /yang-model-ri-11-0-4-sources-1-
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* /yang-model-ri-11-0-4-sources-1-
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* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/eff/EmptyOrganizationEffectiveStatement.java
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* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/decl/EmptyIfFeatureStatement.java
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* /yang-model-ri-11-0-4-sources-1-
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* /yang-model-ri-11-0-4-sources-1-
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* /yang-model-ri-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/eff/EmptyMandatoryEffectiveStatement.java
* /yang-model-ri-11-0-4-sources-1-
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jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/eff/RefineEffectiveStatementImpl.java

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* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/decl/RegularAnydataStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/decl/EmptyConfigStatement.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/type/BitImpl.java
* /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/type/BitBuilder.java
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 /yang-model-ri-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/decl/EmptyActionStatement.java
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1.761 rfc8040-parser-support 11.0.4

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* /rfc8040-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8040/parser/YangDataStatementImpl.java
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1.762 mdsal-binding-spi 12.0.3

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Found in path(s):
* /mdsal-binding-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/spi/ForwardingReadTransaction.java
* /mdsal-binding-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/spi/ForwardingDataBroker.java
* /mdsal-binding-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/spi/ForwardingWriteTransaction.java
* /mdsal-binding-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/spi/ForwardingReadWriteTransaction.java

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* /mdsal-binding-spi-12-0-3-sources-1-jar/module-info.java
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* /mdsal-binding-spi-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-binding-spi/pom.xml

1.763 ietf-topology 2013.10.21.24.3

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* /ietf-topology-2013-10-21-24-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.model/ietf-topology/pom.xml

1.764 yang-data-transform 11.0.4

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Found in path(s):
* /yang-data-transform-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/yang-data-transform/pom.xml
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Found in path(s):
* /yang-data-transform-11-0-4-sources-1-jar/org/opendaylight/yangtools/transform/QNameTransformingStreamWriter.java
* /yang-data-transform-11-0-4-sources-1-jar/org/opendaylight/yangtools/transform/QNameModuleReplacementFunction.java
* /yang-data-transform-11-0-4-sources-1-jar/org/opendaylight/yangtools/transform/QNameReplacementFunction.java
* /yang-data-transform-11-0-4-sources-1-jar/org/opendaylight/yangtools/transform/NormalizedNodeTransformations.java
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1.765 eos-dom-akka 8.0.3

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Found in path(s):
* /eos-dom-akka-8-0-3-sources-1-jar/META-INF/maven/org.opendaylight.controller/eos-dom-akka/pom.xml
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* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/owner/command/OwnerChanged.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntityOwnerRequest.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetOwnershipState.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/OwnerSupervisorRequest.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntitiesBackendRequest.java
*
 /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/EntityRpcHandler.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/bootstrap/command/Terminate.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/OwnerSyncer.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/CandidateRegistration.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/owner/SingleEntityListenerActor.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/CandidateRegistry.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/MemberUpEvent.java

* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/EntityOwnerChanged.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/IdleSupervisor.java
*
/eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/owner/command/InitialOwnerSync.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntityRequest.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/owner/command/ListenerCommand.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/OwnerSupervisorReply.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/AbstractEntityRequest.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/RegisterListener.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/command/RemovePreviousCandidates.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/type/EntityTypeListenerActor.java
*
/eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/OwnerDataResponse.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/UnregisterListener.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/InitialCandidateSync.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/StateCheckerRequest.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetCandidates.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/ActivateDataCenter.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntitiesReply.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/type/EntityTypeListenerRegistry.java
*
/eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/command/CandidateRemovalFailed.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/OwnerChanged.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/command/InternalUpdateResponse.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/TypeListenerCommand.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/OwnerSupervisorCommand.java

* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/MemberUnreachableEvent.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/OwnerStateChecker.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/ClearCandidatesUpdateResponse.java
*
/eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/TypeListenerRegistryCommand.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/command/AbstractCandidateCommand.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/command/UnregisterCandidate.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/DataCenterControl.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/bootstrap/command/RunningContext.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntityBackendReply.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/ClearCandidates.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntityOwnerBackendReply.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/bootstrap/EOSMain.java
*
/eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/StateCheckerCommand.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/InternalGetReply.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/ListenerRegistration.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/checker/command/SingleEntityOwnerDataResponse.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/CandidatesChanged.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/CandidateRegistryInit.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/ClearCandidatesForMember.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/DataCenterActivated.java
*
/eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/MemberReachableEvent.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/registry/candidate/command/RegisterCandidate.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/ClearCandidatesResponse.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/AbstractEntityRequest.java
* /eos-dom-akka-8-0-3-sources-1-

jar/org/opendaylight/controller/eos/akka/owner/checker/command/StateCheckerReply.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/controller/entity/owners/norev/EntityName
Builder.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/bootstrap/command/BootstrapCommand.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/CandidatesChanged.java
*
/eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/AkkaEntityOwnershipService.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntitiesBackendReply.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntityOwnerBackendRequest.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/registry/candidate/command/CandidateRemovalFinished.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/DataCenterDeactivated.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/bootstrap/command/GetRunningContext.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/InitialOwnerSync.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/InternalClusterEvent.java
*
/eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntityBackendRequest.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/MemberDownEvent.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntityOwnerReply.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntitiesRequest.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/DeactivateDataCenter.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetOwnershipStateReply.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetCandidatesForEntity.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetOwnerForEntity.java
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/OwnerSupervisor.java
*
/eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/TerminateListener.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntityReply.java
* /eos-dom-akka-8-0-3-sources-1-

jar/org/opendaylight/controller/eos/akka/registry/candidate/command/CandidateRegistryCommand.java
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Found in path(s):
* /eos-dom-akka-8-0-3-sources-1-jar/org/opendaylight/controller/eos/akka/owner/supervisor/CandidateCleaner.java
* /eos-dom-akka-8-0-3-sources-1-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/AbstractSupervisor.java

1.766 rfc5277 6.0.5

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Found in path(s):
* /rfc5277-6-0-5-sources-1-jar/META-INF/maven/org.opendaylight.netconf.model/rfc5277/pom.xml

1.767 threadpool-config-impl 0.19.3

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Found in path(s):

* /threadpool-config-impl-0-19-3-sources-1-jar/org/opendaylight/controller/config/threadpool/util/FlexibleThreadPoolWrapper.java
* /threadpool-config-impl-0-19-3-sources-1-jar/org/opendaylight/controller/config/threadpool/util/FixedThreadPoolWrapper.java
* /threadpool-config-impl-0-19-3-sources-1-jar/org/opendaylight/controller/config/threadpool/util/NamingThreadPoolFactory.java
* /threadpool-config-impl-0-19-3-sources-1-jar/org/opendaylight/controller/config/threadpool/util/ScheduledThreadPoolWrapper.java

1.768 rfc8526 6.0.5

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Found in path(s):
* /rfc8526-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/nmda/rev190107/GetDataInputMaxDepthBuilder.java
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* /rfc8526-6-0-5-sources-1-jar/META-INF/yang/ietf-netconf-nmda@2019-01-07.yang

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```
/**
* This YANG module defines a set of NETCONF operations to support the Network
* Management Datastore Architecture (NMDA). The key words 'MUST', 'MUST NOT',
* 'REQUIRED', 'SHALL', 'SHALL NOT', 'SHOULD', 'SHOULD NOT', 'RECOMMENDED', 'NOT
* RECOMMENDED', 'MAY', and 'OPTIONAL' in this document are to be interpreted as
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* set forth in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF
* Documents (https://trustee.ietf.org/license-info). This version of this YANG
* module is part of RFC 8526;
 see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-netconf-nmda</b>
* <pre>
* module ietf-netconf-nmda {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-nmda;
*   prefix ncds;
*   import ietf-yang-types {
*     prefix yang;
*   }
*   import ietf-inet-types {
*     prefix inet;
*   }
*   import ietf-datastores {
*     prefix ds;
*   }
*   import ietf-origin {
*     prefix or;
*   }
*   import ietf-netconf {
*     prefix nc;
*   }
*   import ietf-netconf-with-defaults {
*     prefix ncwd;
*   }
*   revision 2019-01-07 {
*   }
*   feature origin {
*   }
*   feature with-defaults {
*   }
```

```
*   rpc get-data {
*     input input {
*       leaf datastore {
*         type ds:datastore-ref;
*       }
*       choice filter-spec {
*         anydata subtree-filter {
*         }
*         leaf xpath-filter {
*           if-feature nc:xpath;
*
          type yang:xpath1.0;
*         }
*       }
*       leaf config-filter {
*         type boolean;
*       }
*       choice origin-filters {
*         when "derived-from-or-self(datastore, \"ds:operational\")";
*         if-feature origin;
*         leaf-list origin-filter {
*           type or:origin-ref;
*         }
*         leaf-list negated-origin-filter {
*           type or:origin-ref;
*         }
*       }
*       leaf max-depth {
*         type union {
*           type uint16 {
*             range 1..65535;
*           }
*           type enumeration {
*             enum unbounded {
*             }
*           }
*         }
*         default unbounded;
*       }
*       leaf with-origin {
*         when "derived-from-or-self(../datastore, \"ds:operational\")";
*         if-feature origin;
*         type empty;
*       }
*       uses ncwd:with-defaults-parameters {
*         if-feature with-defaults;
*       }
*     }
```

```
*     output output
 {
*       anydata data {
*       }
*     }
*   }
*   rpc edit-data {
*     input input {
*       leaf datastore {
*         type ds:datastore-ref;
*       }
*       leaf default-operation {
*         type enumeration {
*           enum merge {
*           }
*           enum replace {
*           }
*           enum none {
*           }
*         }
*         default merge;
*       }
*       choice edit-content {
*         anydata config {
*         }
*         leaf url {
*           if-feature nc:url;
*           type inet:uri;
*         }
*       }
*     }
*   }
*   augment /nc:lock/nc:input/nc:target/nc:config-target {
*     leaf datastore {
*       type ds:datastore-ref;
*     }
*   }
*   augment /nc:unlock/nc:input/nc:target/nc:config-target {
*     leaf datastore {
*       type ds:datastore-ref;
*     }
*   }
*   augment /nc:validate/nc:input/nc:source/nc:config-source {
*     leaf datastore {
*       type ds:datastore-ref;
*     }
*   }
```

```
 * }
* </pre>
*
*/
```

Found in path(s):
* /rfc8526-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/nmda/rev190107/IetfNetconfNmdaData.java

1.769 threadpool-config-api 0.19.3

1.769.1 Available under license :

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```

Found in path(s):
* /threadpool-config-api-0-19-3-sources-1-jar/org/opendaylight/controller/config/threadpool/ThreadPool.java
* /threadpool-config-api-0-19-3-sources-1-jar/org/opendaylight/controller/config/threadpool/ScheduledThreadPool.java

1.770 yang-ir 11.0.4

1.770.1 Available under license :

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* /yang-ir-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/yang-ir/pom.xml
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* /yang-ir-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/ir/package-info.java
* /yang-ir-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/ir/IRArgument.java
* /yang-ir-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/ir/IRKeyword.java
* /yang-ir-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/ir/IRStatement.java
* /yang-ir-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/ir/AbstractIRObject.java
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* /yang-ir-11-0-4-sources-1-jar/module-info.java

1.771 aaa-shiro 0.18.3

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* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/filters/AAAShiroFilter.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/filters/AuthenticationListener.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/filters/AuthenticationTokenUtils.java
* /aaa-shiro-0-18-3-sources-1-
jar/org/opendaylight/aaa/shiro/realm/mapping/impl/BestAttemptGroupToRolesMappingStrategy.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/ODLJndiLdapRealmAuthNOnly.java

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Found in path(s):
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/MdsalRealm.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/util/http/header/HeaderUtils.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/util/TokenUtils.java
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Found in path(s):
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/web/env/WebInitializer.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/web/env/ShiroWebContextSecurer.java
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* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/moon/MoonPrincipal.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/moon/MoonTokenEndpoint.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/MoonRealm.java
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jar/org/opendaylight/aaa/shiro/realm/mapping/api/GroupsToRolesMappingStrategy.java
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* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/ODLJdbcRealm.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/ODLActiveDirectoryRealm.java
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* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/idm/IdmLightApplication.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/idm/DomainHandler.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/idm/RoleHandler.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/idm/UserHandler.java
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* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/MDSALDynamicAuthorizationFilter.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/principal/ODLPrincipalImpl.java
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* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/ODLJndiLdapRealm.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/TokenAuthRealm.java
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Found in path(s):
* /aaa-shiro-0-18-3-sources-1-jar/OSGI-INF/blueprint/impl-blueprint.xml
* /aaa-shiro-0-18-3-sources-1-jar/META-INF/maven/org.opendaylight.aaa/aaa-shiro/pom.xml
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* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/util/http/SimpleHttpClient.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/KeystoneAuthRealm.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/keystone/domain/KeystoneAuth.java
* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/util/http/SimpleHttpRequest.java

* /aaa-shiro-0-18-3-sources-1-jar/org/opendaylight/aaa/shiro/realm/util/http/UntrustedSSL.java
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Found in path(s):
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1.772 odlext-model-api 11.0.4

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* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/RpcContextReferenceStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/ContextReferenceEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/AugmentIdentifierStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/InstanceTargetEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/MountStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/ContextInstanceEffectiveStatement.java
*
 /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/ContextInstanceStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/ContextReferenceStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/RpcContextReferenceEffectiveStatement.java

* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/AugmentIdentifierEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/MountEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/InstanceTargetStatement.java
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* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/OpenDaylightExtensionsConstants.java
* /odlext-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/odlext/model/api/OpenDaylightExtensionsStatements.java
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1.773 rfc7952-parser-support 11.0.4

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* /rfc7952-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc7952/parser/RefAnnotationStatement.java
* /rfc7952-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc7952/parser/AnnotationStatementImpl.java
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1.774 restconf-api 6.0.5

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* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/package-info.java
* /restconf-api-6-0-5-sources-1-jar/module-info.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/package-info.java
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* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/AbstractReplayParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/FieldsParameterParser.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/FilterParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/PointParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/ApiPath.java
*
 /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/ContentParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/PrettyPrintParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/Utf8Buffer.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/InsertParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/SkipNotificationDataParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/StartTimeParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/RestconfQueryParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/ApiPathParser.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/DepthParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/FieldsParam.java
* /restconf-api-6-0-5-sources-1-jar/org/opendaylight/restconf/api/query/StopTimeParam.java
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1.775 yang-data-tree-api 11.0.4

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* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/BackendFailedException.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeModificationCursor.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/CursorAwareDataTreeModification.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/CursorAwareDataTreeSnapshot.java
*
 /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/SchemaValidationFailedException.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/TreeType.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeTip.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeCandidateTip.java
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* /yang-data-tree-api-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/data/tree/api/IncorrectDataStructureException.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeSnapshot.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTree.java
* /yang-data-tree-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/api/ConflictingModificationAppliedException.java
*
/yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeModification.java
* /yang-data-tree-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeCandidateNode.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/ModificationType.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeFactory.java
* /yang-data-tree-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/tree/api/DataValidationFailedException.java
* /yang-data-tree-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeCandidate.java
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1.776 rfc6241-parser-support 11.0.4

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* /rfc6241-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6241/parser/GetFilterElementAttributesStatementImpl.java
* /rfc6241-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6241/parser/RefGetFilterElementAttributesStatement.java
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1.777 rfc7952-model-api 11.0.4

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* /rfc7952-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc7952/model/api/AnnotationStatement.java
* /rfc7952-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc7952/model/api/package-info.java
* /rfc7952-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc7952/model/api/AnnotationEffectiveStatement.java
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* /rfc7952-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc7952/model/api/AnnotationSchemaNodeAwareSchemaContext.java

1.778 yang-repo-fs 11.0.4

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1.779 mdsal-binding-spec-util 12.0.3

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1.780 mdsal-eos-dom-api 12.0.3

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* /mdsal-eos-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipService.java
* /mdsal-eos-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipListener.java
* /mdsal-eos-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntity.java
* /mdsal-eos-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipChange.java
* /mdsal-eos-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipCandidateRegistration.java
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1.781 mdsal-binding-runtime-osgi 12.0.3

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* /mdsal-binding-runtime-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/osgi/OSGiBindingRuntimeContext.java
* /mdsal-binding-runtime-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/osgi/impl/OSGiBindingRuntime.java
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1.782 repackaged-shiro 0.18.3

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The implementation for org.apache.shiro.util.SoftHashMap is based
on initial ideas from Dr. Heinz Kabutz's publicly posted version
available at http://www.javaspecialists.eu/archive/Issue015.html,
with continued modifications.

Certain parts (StringUtils, IpAddressMatcher, etc.) of the source
code for this product was copied for simplicity and to reduce
dependencies from the source code developed by the Spring Framework
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1.783 sal-akka-raft 8.0.3

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* /sal-akka-raft-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/raft/base/messages/CaptureSnapshotReply.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/Snapshot.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/RaftRPC.java
* /sal-akka-raft-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/raft/behaviors/AbstractRaftActorBehavior.java
*
 /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/InstallSnapshot.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/FollowerLogInformation.java
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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/client/messages/FindLeaderReply.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/DefaultConfigParamsImpl.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/base/messages/Replicate.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/ReplicatedLog.java
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 /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/RequestVote.java
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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/AbstractRaftRPC.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/base/messages/ApplyState.java
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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/RequestVoteReply.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/ClientRequestTrackerImpl.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/ElectionTerm.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/RaftActorContextImpl.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/InstallSnapshotReply.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/base/messages/ElectionTimeout.java
*

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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/behaviors/SnapshotTracker.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/behaviors/Follower.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/behaviors/Leader.java
* /sal-akka-raft-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/raft/persisted/SimpleReplicatedLogEntry.java
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* /sal-akka-raft-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/raft/persisted/ServerConfigurationPayload.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/GetSnapshotReplyActor.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/ImmutableElectionTerm.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/ServerChangeStatus.java
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/sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/base/messages/LeaderTransitioning.java
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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/UpdateElectionTerm.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/DeleteEntries.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/ServerChangeReply.java
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jar/org/opendaylight/controller/cluster/raft/messages/ChangeServersVotingStatus.java
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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/policy/RaftPolicy.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/policy/DefaultRaftPolicy.java
* /sal-akka-raft-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/raft/base/messages/InitiateCaptureSnapshot.java
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 /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/RemoveServerReply.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/RemoveServer.java
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jar/org/opendaylight/controller/cluster/raft/base/messages/FollowerInitialSyncUpStatus.java
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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/AE.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/IS.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/RV.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/IR.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/AR.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/SS.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/DE.java
*
 /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/NP.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/UT.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/LE.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/LegacySerializable.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/VR.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/behaviors/FI.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/persisted/AJE.java
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jar/org/opendaylight/controller/cluster/raft/messages/UnInitializedFollowerSnapshotReply.java
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* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/IdentifiablePayload.java
* /sal-akka-raft-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/raft/messages/Payload.java

1.784 sal-common-util 8.0.3

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* /sal-common-util-8-0-3-sources-1-jar/org/opendaylight/controller/md/sal/common/util/jmx/AbstractMXBean.java
* /sal-common-util-8-0-3-sources-1-jar/org/opendaylight/controller/md/sal/common/util/jmx/ThreadExecutorStatsMXBeanImpl.java
* /sal-common-util-8-0-3-sources-1-jar/org/opendaylight/controller/md/sal/common/util/jmx/ThreadExecutorStats.java
* /sal-common-util-8-0-3-sources-1-jar/org/opendaylight/controller/md/sal/common/util/jmx/ThreadExecutorStatsMXBean.java

1.785 rfc6536-model-api 11.0.4

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* /rfc6536-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6536/model/api/NACMStatements.java
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jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyWriteEffectiveStatement.java
* /rfc6536-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyWriteStatement.java
* /rfc6536-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyAllStatement.java
* /rfc6536-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6536/model/api/package-info.java
* /rfc6536-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyAllSchemaNode.java
* /rfc6536-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyAllEffectiveStatement.java
*
 /rfc6536-model-api-11-0-4-sources-1-
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* /rfc6536-model-api-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/rfc6536-model-api/pom.xml

1.786 web-osgi-impl 0.18.3

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* /web-osgi-impl-0-18-3-sources-1-jar/org/opendaylight/aaa/web/osgi/WhiteboardResource.java
* /web-osgi-impl-0-18-3-sources-1-jar/org/opendaylight/aaa/web/osgi/WhiteboardServletContextHelper.java

1.787 servlet-api 0.18.3

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* /servlet-api-0-18-3-sources-1-jar/org/opendaylight/aaa/web/servlet/ServletSupport.java
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1.788 sal-distributed-datastore 8.0.3

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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/DatastoreContextPropertiesUpdater.java
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jar/org/opendaylight/controller/cluster/datastore/messages/FindPrimary.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/DistributedDataStore.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/LocalShardFound.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/AbortTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/CloseTransactionChain.java
*
/sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/modification/MergeModification.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/UpdateSchemaContext.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/exceptions/UnknownMessageException.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/CanCommitTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/modification/WriteModification.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/DataExistsReply.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardManagerInfoMBean.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/shardstrategy/ShardStrategy.java
*
/sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/config/Configuration.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/CreateTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/ReadData.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/LocalShardNotFound.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ShardReadWriteTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/ActorInitialized.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ClusterWrapperImpl.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ThreePhaseCommitCohortProxy.java
*
/sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/SerializableMessage.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/modification/MutableCompositeModification.java

* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/ShardTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardManagerInfo.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardManager.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/identifiers/ShardIdentifier.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/shardstrategy/DefaultShardStrategy.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/CloseTransactionReply.java
*
/sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/ShardStats.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/shardstrategy/ShardStrategyFactory.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/CanCommitTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/EnableNotification.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/AbstractDataStore.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/CloseTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/CommitTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/identifiers/ShardManagerIdentifier.java
*
/sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/ClusterWrapper.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/modification/CompositeModification.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/DistributedDataStoreFactory.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/DataExists.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/utils/ActorUtils.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/TerminationMonitor.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/exceptions/TimeoutException.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/PeerAddressResolved.java
*
/sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/CommitTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/ShardReadTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/FindLocalShard.java

* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/RemotePrimaryShardFound.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/exceptions/NotInitializedException.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/AbortTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/TransactionProxy.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/exceptions/PrimaryNotFoundException.java
*
 /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/ReadyTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/modification/Modification.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/config/ConfigurationImpl.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/ReadDataReply.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/Shard.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/shardstrategy/ModuleShardStrategy.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/modification/DeleteModification.java
*
 /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/CreateTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/shardmanager/AbstractShardManagerCreator.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/config/AbstractModuleShardConfigProvider.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/config/HybridModuleShardConfigProvider.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/GetKnownClientsReply.java
* /sal-distributed-datastore-8-0-3-sources-1-

jar/org/opendaylight/controller/cluster/datastore/persisted/DisableTrackingPayload.java
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jar/org/opendaylight/controller/cluster/datastore/messages/AddShardReplica.java
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jar/org/opendaylight/controller/cluster/datastore/messages/RemoveShardReplica.java
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jar/org/opendaylight/controller/cluster/datastore/AbstractDatastoreContextIntrospectorFactory.java
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jar/org/opendaylight/controller/cluster/datastore/DefaultDatastoreContextIntrospectorFactory.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/DatastoreContextIntrospectorFactory.java
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jar/org/opendaylight/controller/cluster/datastore/messages/OnDemandShardState.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/persisted/ShardManagerSnapshot.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/persisted/ShardSnapshotState.java
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jar/org/opendaylight/controller/cluster/databroker/DOMBrokerWriteOnlyTransaction.java
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jar/org/opendaylight/controller/cluster/datastore/RemoteTransactionContext.java
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jar/org/opendaylight/controller/cluster/datastore/modification/AbstractModification.java
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jar/org/opendaylight/controller/cluster/datastore/ShardSnapshotCohort.java
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jar/org/opendaylight/controller/cluster/datastore/RootDataTreeChangeListenerActor.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/databroker/OSGiDOMDataBroker.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/TransactionModificationOperation.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/OSGiDatastoreContextIntrospectorFactory.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/RootDataTreeChangeListenerProxy.java
*
 /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/actors/JsonExportActor.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/OSGiDOMStore.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/akka/osgi/impl/OSGiActorSystemProvider.java
* /sal-distributed-datastore-8-0-3-sources-1-

jar/org/opendaylight/controller/cluster/datastore/OSGiDistributedDataStore.java
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jar/org/opendaylight/controller/cluster/datastore/utils/MutableUnsignedLongSet.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/AbstractTransactionContextWrapper.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/utils/ImmutableUnsignedLongSet.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/utils/UnsignedLongSet.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/persisted/SkipTransactionsPayload.java
*
 /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/DirectTransactionContextWrapper.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/utils/UnsignedLongBitmap.java
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jar/org/opendaylight/controller/cluster/akka/osgi/impl/BundleClassLoaderFactory.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/akka/impl/AkkaConfigFactory.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/akka/osgi/impl/QuarantinedMonitorActorPropsFactory.java
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jar/org/opendaylight/controller/cluster/datastore/messages/GetShardRoleReply.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/MakeLeaderLocal.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/GetShardRole.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/DataStoreVersions.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/databroker/ConcurrentDOMDataBroker.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/ForwardedReadyTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/exceptions/NoShardLeaderException.java
*
 /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/databroker/CommitStatsMXBeanImpl.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ShardRecoveryCoordinator.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ShardCommitCoordinator.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/exceptions/LocalShardNotFoundException.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/CohortEntry.java
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jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeNotificationPublisherActor.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/DistributedDataStoreInterface.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/utils/NormalizedNodeXMLOutput.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeChangeListenerPublisherActorProxy.java
*
/sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/ChangeShardMembersVotingStatus.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/FlipShardMembersVotingStatus.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/messages/AbstractThreePhaseCommitMessage.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/utils/DataTreeModificationOutput.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeChangeListenerPublisher.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/AbstractShardDataTreeNotificationPublisherActorProxy.java
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jar/org/opendaylight/controller/cluster/datastore/OnDemandShardStateCache.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeListenerInfoMXBeanImpl.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/actors/DataTreeNotificationListenerRegistrationActor.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeChangePublisherActor.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/utils/CompositeOnComplete.java
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/sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/GetInfo.java
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jar/org/opendaylight/controller/cluster/datastore/messages/RegisterDataTreeNotificationListenerReply.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/ShardDataTreeSnapshot.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/ClientBackedTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/FutureVersionException.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/SimpleShardBackendResolver.java
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 /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/LeaderFrontendState.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/shardmanager/GetLocalShardIds.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/DataTreeCohortActorRegistry.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/LocalAbortable.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/ProxyHistory.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/ClientTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/ClientBackedReadWriteTransaction.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/SimpleDataStoreClientActor.java
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 /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/AbortTransactionPayload.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/LocalFrontendHistory.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/FrontendHistoryMetadata.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/FrontendShardDataTreeSnapshotMetadata.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/FrontendReadWriteTransaction.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/AbstractShardBackendResolver.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/ClientBackedReadTransaction.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/MetadataShardDataTreeSnapshot.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/AbstractVersionedShardDataTreeSnapshot.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/DirectTransactionCommitCohort.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/GetClientRequest.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/DataTreeCandidateInputOutput.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/LocalReadOnlyProxyTransaction.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/databroker/actors/dds/ClientSnapshot.java
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* /sal-distributed-datastore-8-0-3-sources-1-
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* /sal-distributed-datastore-8-0-3-sources-1-
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* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/databroker/actors/dds/AbstractDataStoreClientActor.java
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jar/org/opendaylight/controller/cluster/datastore/FrontendHistoryMetadataBuilder.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/databroker/actors/dds/AbstractClientHandle.java
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jar/org/opendaylight/controller/cluster/datastore/DOMDataTreeCandidateTO.java
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jar/org/opendaylight/controller/cluster/datastore/DefaultShardDataTreeChangeListenerPublisher.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/DataTreeChangeListenerSupport.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/AbstractTransactionContextFactory.java
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* /sal-distributed-datastore-8-0-3-sources-1-
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jar/org/opendaylight/controller/cluster/datastore/AbstractThreePhaseCommitCohort.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/LocalTransactionReadySupport.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/ShardTransactionActorFactory.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/PrimaryShardInfo.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/DatastoreContextFactory.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/messages/GetShardDataTree.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/DatastoreSnapshot.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/exceptions/ShardLeaderNotRespondingException.java
* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/DebugThreePhaseCommitCohort.java
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jar/org/opendaylight/controller/cluster/datastore/utils/AbstractBatchedModificationsCursor.java
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jar/org/opendaylight/controller/cluster/datastore/TransactionContextCleanup.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/DS.java
* /sal-distributed-datastore-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/databroker/actors/dds/FailedDataTreeModificationException.java
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* /sal-distributed-datastore-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/persisted/ST.java

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* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/rests/transactions/RestconfStrategy.java
* /restconf-nb-6-0-5-sources-1-
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jar/org/opendaylight/restconf/nb/rfc8040/rests/services/impl/OperationsContainerSchemaNode.java

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* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/streams/listeners/AbstractNotificationListenerAdaptor.java
* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/databind/DatabindProvider.java
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* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/rests/services/impl/OperationsContent.java
* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/MediaTypes.java
* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/legacy/NormalizedNodePayload.java
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* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/streams/WebSocketInitializer.java
* /restconf-nb-6-0-5-sources-1-
jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/errors/StreamWriterWithDisabledValidation.java
* /restconf-nb-6-0-5-sources-1-jar/org/opendaylight/restconf/nb/rfc8040/streams/WebSocketSessionHandler.java
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jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/errors/XmlStreamWriterWithDisabledValidation.java
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* /aaa-cert-0-18-3-sources-1-jar/org/opendaylight/aaa/cert/api/ICertificateManager.java
* /aaa-cert-0-18-3-sources-1-jar/org/opendaylight/aaa/cert/impl/CertificateManagerService.java
* /aaa-cert-0-18-3-sources-1-jar/org/opendaylight/aaa/cert/impl/KeyStoresDataUtils.java
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* /aaa-cert-0-18-3-sources-1-jar/org/opendaylight/aaa/cert/impl/ODLKeyTool.java

1.791 servlet-jersey2 0.18.3

1.791.1 Available under license :

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Found in path(s):
* /servlet-jersey2-0-18-3-sources-1-jar/META-INF/maven/org.opendaylight.aaa.web/servlet-jersey2/pom.xml
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Found in path(s):
* /servlet-jersey2-0-18-3-sources-1-jar/org/opendaylight/aaa/web/servlet/jersey2/JerseyHttpServletBuilder.java
* /servlet-jersey2-0-18-3-sources-1-jar/org/opendaylight/aaa/web/servlet/jersey2/JerseyServletSupport.java

1.792 rfc6243 6.0.5

1.792.1 Available under license :

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/**
* This module defines an extension to the NETCONF protocol that allows the
* client to control how default values are handled by the server in particular
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```
* of RFC 6243; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-netconf-with-defaults</b>
* <pre>
* module ietf-netconf-with-defaults {
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults;
 *   prefix ncwd;
*   import ietf-netconf {
*     prefix nc;
*   }
*   revision 2011-06-01 {
*   }
*   typedef with-defaults-mode {
*     type enumeration {
*       enum report-all {
*       }
*       enum report-all-tagged {
*       }
*       enum trim {
*       }
*       enum explicit {
*       }
*     }
*   }
*   grouping with-defaults-parameters {
*     leaf with-defaults {
*       type with-defaults-mode;
*     }
*   }
*   augment /nc:get-config/nc:input {
*     uses with-defaults-parameters;
*   }
*   augment /nc:get/nc:input {
*     uses with-defaults-parameters;
*   }
*   augment /nc:copy-config/nc:input {
*     uses with-defaults-parameters;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6243-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/with/defaults/rev110601/IetfNetconfWithDefaultsData.java

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Found in path(s):
* /rfc6243-6-0-5-sources-1-jar/META-INF/yang/ietf-netconf-with-defaults@2011-06-01.yang
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Found in path(s):
* /rfc6243-6-0-5-sources-1-jar/META-INF/maven/org.opendaylight.netconf.model/rfc6243/pom.xml

1.793 yang-model-util 11.0.4

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* /yang-model-util-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/yang-model-util/pom.xml
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Found in path(s):

* /yang-model-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/util/ModuleNameNamespaceContext.java
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Found in path(s):
* /yang-model-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/util/EffectiveAugmentationSchema.java
* /yang-model-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/util/FilteringSchemaContextProxy.java
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Found in path(s):
* /yang-model-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/util/LeafrefResolver.java
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Found in path(s):
* /yang-model-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/util/SchemaContextUtil.java
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Found in path(s):
* /yang-model-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/util/SchemaInferenceStack.java
* /yang-model-util-11-0-4-sources-1-jar/module-info.java
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Found in path(s):
* /yang-model-util-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/util/package-info.java

1.794 rfc6470 6.0.5

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Found in path(s):
* /rfc6470-6-0-5-sources-1-jar/META-INF/maven/org.opendaylight.netconf.model/rfc6470/pom.xml
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Found in path(s):
* /rfc6470-6-0-5-sources-1-jar/META-INF/yang/ietf-netconf-notifications@2012-02-06.yang
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/**
* This module defines a YANG data model for use with the NETCONF protocol that
* allows the NETCONF client to receive common NETCONF base event notifications.

```
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* of RFC 6470; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-netconf-notifications</b>
* <pre>
* module ietf-netconf-notifications {
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-notifications;
 *   prefix ncn;
*   import ietf-inet-types {
*     prefix inet;
*     revision-date 2013-07-15;
*   }
*   import ietf-netconf {
*     prefix nc;
*     revision-date 2011-06-01;
*   }
*   revision 2012-02-06 {
*   }
*   grouping common-session-parms {
*     leaf username {
*       type string;
*     }
*     leaf session-id {
*       type nc:session-id-or-zero-type;
*     }
*     leaf source-host {
*       type inet:ip-address;
*     }
*   }
*   grouping changed-by-parms {
*     container changed-by {
*       choice server-or-user {
*         leaf server {
*           type empty;
*         }
*         case by-user {
*           uses common-session-parms;
*         }
*       }
*     }
*   }
*   notification netconf-config-change {
```

```
*     uses changed-by-parms;
*     leaf datastore {
*       type enumeration {
*         enum running {
*         }
*         enum startup {
*         }
*       }
*       default running;
*     }
*     list edit {
 *      leaf target {
*         type instance-identifier;
*       }
*       leaf operation {
*         type nc:edit-operation-type;
*       }
*     }
*   }
*   notification netconf-capability-change {
*     uses changed-by-parms;
*     leaf-list added-capability {
*       type inet:uri;
*     }
*     leaf-list deleted-capability {
*       type inet:uri;
*     }
*     leaf-list modified-capability {
*       type inet:uri;
*     }
*   }
*   notification netconf-session-start {
*     uses common-session-parms;
*   }
*   notification netconf-session-end {
*     uses common-session-parms;
*     leaf killed-by {
*       when "../termination-reason = 'killed'";
*       type nc:session-id-type;
*     }
*     leaf termination-reason {
*       type enumeration {
*         enum closed {
*         }
*         enum killed {
*         }
*         enum dropped {
*         }
```

```
*         enum timeout {
*         }
*         enum bad-hello {
*         }
*
  enum other {
*         }
*       }
*     }
*   }
*   notification netconf-confirmed-commit {
*     uses common-session-parms {
*       when "confirm-event != 'timeout'";
*     }
*     leaf confirm-event {
*       type enumeration {
*         enum start {
*         }
*         enum cancel {
*         }
*         enum timeout {
*         }
*         enum extend {
*         }
*         enum complete {
*         }
*       }
*     }
*     leaf timeout {
*       when "../confirm-event = 'start' or ../confirm-event = 'extend'";
*       type uint32;
*       units seconds;
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6470-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/notifications/rev120206/IetfNetconfNotificationsData.java

1.795 yang-model-api 11.0.4

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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/EffectiveModelContextProvider.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/compat/ActionNodeContainerCompat.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/EffectiveModelContext.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/IfFeatureExpr.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/compat/package-info.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/EffectiveModelContextListener.java
*
 /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/compat/NotificationNodeContainerCompat.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/ActionStatementAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/MandatoryStatementAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/meta/DefaultStatementDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/DataTreeAwareEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/MustStatementAwareDeclaredStatement.java
*
 /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/ConfigStatementAwareDeclaredStatement.java

* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/DefaultStatementAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/SchemaTreeEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/DataTreeEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/OperationDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/SchemaTreeAwareEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/NotificationStatementAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/DataDefinitionAwareDeclaredStatement.java
*
 /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/AddedByUsesAware.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/SchemaNode.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/IdentityrefTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/BinaryTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/DataSchemaNode.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/DecimalTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/BooleanTypeDefinition.java
*
 /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ExtensionDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/StringTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/EmptyTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ElementCountConstraint.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/IdentitySchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ConstraintMetaDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/NotificationDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/UnionTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/FeatureDefinition.java
*

/yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/LengthConstraint.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/IdentityTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/SchemaContext.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/PatternConstraint.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/InstanceIdentifierTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/RpcDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ModuleLike.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/RangeConstraint.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/GroupingDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ContainerLike.java
*
/yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/AugmentationTarget.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/RequireInstanceRestrictedTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/AugmentationSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/Module.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/QNameModuleAware.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ListSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/DataNodeContainer.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/MustDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/Deviation.java
*
/yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/BitsTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/Status.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/UnknownSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/AnyxmlSchemaNode.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/LeafrefTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ContainerSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ModuleImport.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/TypeDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/EnumTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/UnknownTypeDefinition.java
*
/yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/CaseSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/package-info.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/LeafSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/LeafListSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/UsesNode.java
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jar/org/opendaylight/yangtools/yang/model/api/stmt/OrderedByAwareEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/meta/AbstractDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/UserOrderedAware.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/RootDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/RootEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/meta/AbstractEffectiveStatement.java
*
/yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/TypedefAwareEffectiveStatement.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/MandatoryStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/ErrorAppTagStatement.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/EffectiveStatementEquivalent.java
* /yang-model-api-11-0-4-sources-1-jar/module-info.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/InputSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/meta/AbstractModelStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/OutputSchemaNode.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/TypeDefinitions.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/UnresolvedNumber.java
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* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/IdentityEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/Uint64TypeDefinition.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/ArgumentEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/MinElementsEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/IfFeatureEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/PatternEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/ModifierEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/ContactEffectiveStatement.java
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/yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/PathEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/ExtensionEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/type/RangeRestrictedTypeDefinition.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/YangVersionEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/ActionEffectiveStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/GroupingEffectiveStatement.java
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jar/org/opendaylight/yangtools/yang/model/api/meta/AbstractStatementDefinition.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/meta/ArgumentDefinition.java
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jar/org/opendaylight/yangtools/yang/model/api/stmt/WhenStatementAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/TypeAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/model/api/stmt/IfFeatureAwareDeclaredStatement.java

* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/ConstrainedDocumentedDeclaredStatement.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ActionDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/TypedDataSchemaNode.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/ActionStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/ConfigEffectiveStatement.java
*
 /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/DeviateDefinition.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/OperationAsContainer.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/AnydataStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/ModifierStatement.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/type/ModifierKind.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/NotificationNodeContainer.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/AnydataSchemaNode.java
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* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/meta/DeclarationReference.java
* /yang-model-api-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/model/api/EffectiveStatementInference.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/ContainerLikeCompat.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/SchemaTreeInference.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/meta/DeclarationInText.java
*
/yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/stmt/DefaultMethodHelpers.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/NotificationAsContainer.java
* /yang-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/api/meta/DeclarationInFile.java

1.796 sal-clustering-commons 8.0.3

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* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/schema/provider/impl/YangTextSchemaSourceSerializationProxy.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/schema/provider/impl/RemoteSchemaProvider.java
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jar/org/opendaylight/controller/cluster/notifications/LeaderStateChanged.java
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jar/org/opendaylight/controller/cluster/ActorSystemProviderListener.java
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jar/org/opendaylight/controller/cluster/io/SharedFileBackedOutputStream.java
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* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/messaging/AssembledMessageState.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/messaging/MessageSliceException.java

* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/SlicedMessageState.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/MessageSliceReply.java
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 /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/MessageAssembler.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/MessageSliceIdentifier.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/MessageSlice.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/io/FileBackedOutputStreamFactory.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/MessageSlicer.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/SliceOptions.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/AssemblerClosedException.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/messaging/AssemblerSealedException.java
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* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/node/utils/transformer/UintAdaptingPruner.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/datastore/node/utils/transformer/ReusableNormalizedNodePruner.java
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* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/PersistentDataProvider.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/common/actor/Dispatchers.java
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* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/notifications/RoleChangeNotifier.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/common/actor/MeteringBehavior.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/notifications/RegisterRoleChangeListener.java
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jar/org/opendaylight/controller/cluster/common/actor/AbstractUntypedActor.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/common/actor/AkkaConfigurationReader.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/common/actor/AbstractUntypedActorWithMetering.java
* /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/reporting/MetricsReporter.java
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 /sal-clustering-commons-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/common/actor/Monitor.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/common/actor/CommonConfig.java
* /sal-clustering-commons-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/common/actor/AbstractUntypedPersistentActor.java
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1.797 yang-repo-spi 11.0.4

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* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/AbstractSchemaListenerRegistration.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceListener.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/AbstractSchemaSourceRegistration.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaListenerRegistration.java
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 /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceRegistration.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/RefcountedRegistration.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/AbstractSchemaRepository.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceRegistry.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceTransformer.java
* /yang-repo-spi-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/model/repo/spi/GuavaSchemaSourceCache.java
* /yang-repo-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/repo/spi/PotentialSchemaSource.java
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1.798 mdsal-eos-binding-api 12.0.3

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* /mdsal-eos-binding-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipListener.java
* /mdsal-eos-binding-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipCandidateRegistration.java
* /mdsal-eos-binding-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipChange.java

* /mdsal-eos-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipListenerRegistration.java
* /mdsal-eos-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipService.java
*
/mdsal-eos-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/api/Entity.java
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1.799 yang-common 11.0.4

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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/Uint64.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/Uint32.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/Uint16.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/Empty.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/Uint8.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/MountPointLabel.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/RpcResultBuilder.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/YangDataName.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/ErrorTag.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/XNv1.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/QNameAwareDataOutput.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/NetconfLayer.java

* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/QNameAwareDataInput.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/ErrorType.java
*
/yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/ErrorSeverity.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/XMLNamespace.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/UnresolvedQName.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/CanonicalValueValidator.java
* /yang-common-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/common/AbstractCanonicalValueValidator.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/CanonicalValueViolation.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/DerivedString.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/CanonicalValue.java
*
/yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/CanonicalValueSupport.java
* /yang-common-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/common/AbstractCanonicalValueSupport.java
* /yang-common-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/common/AbstractCanonicalValueImplementationValidator.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/YangNames.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/NSv1.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/UQNv1.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/UintConversions.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/QNv1.java
* /yang-common-11-0-4-sources-1-jar/module-info.java
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* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/RpcError.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/QName.java
* /yang-common-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/common/RpcResult.java

1.800 aaa-password-service-impl 0.18.3

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* /aaa-password-service-impl-0-18-3-sources-1-jar/org/opendaylight/aaa/impl/password/service/OSGiPasswordServiceConfig.java
* /aaa-password-service-impl-0-18-3-sources-1-jar/org/opendaylight/aaa/impl/password/service/OSGiPasswordHashService.java
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1.801 rfc6536-parser-support 11.0.4

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jar/org/opendaylight/yangtools/rfc6536/parser/RefDefaultDenyWriteStatement.java
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jar/org/opendaylight/yangtools/rfc6536/parser/RefDefaultDenyAllStatement.java
* /rfc6536-parser-support-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc6536/parser/DefaultDenyAllEffectiveStatementImpl.java
* /rfc6536-parser-support-11-0-4-sources-1-
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1.802 netty-timer-config 0.19.3

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1.803 mdsal-binding-util 12.0.3

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* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/CheckedConsumer.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/InterruptibleCheckedConsumer.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/ManagedNewTransactionRunnerImpl.java

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* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/InterruptibleCheckedFunction.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/ManagedTransactionFactory.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/TransactionAdapter.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/CheckedFunction.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/TypedReadTransaction.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/TypedReadWriteTransaction.java
*
 /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/TypedWriteTransactionImpl.java
* /mdsal-binding-util-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/util/WriteTrackingWriteTransaction.java
* /mdsal-binding-util-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/util/WriteTrackingReadWriteTransaction.java
* /mdsal-binding-util-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/util/ManagedTransactionFactoryImpl.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/ManagedTransactionChain.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/TypedWriteTransaction.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/Datastore.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/TypedTransaction.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/TypedReadTransactionImpl.java
* /mdsal-binding-util-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/util/TypedReadWriteTransactionImpl.java
*

/mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/ManagedTransactionChainImpl.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/WriteTrackingTypedReadWriteTransactionImpl.java
* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/WriteTrackingTypedWriteTransactionImpl.java
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* /mdsal-binding-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/util/WriteTrackingTransaction.java

1.804 rfc8639-model-api 11.0.4

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* /rfc8639-model-api-11-0-4-sources-1-jar/module-info.java
* /rfc8639-model-api-11-0-4-sources-1-

jar/org/opendaylight/yangtools/rfc8639/model/api/SubscribedNotificationsConstants.java
* /rfc8639-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8639/model/api/SubscriptionStateNotificationStatement.java
* /rfc8639-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8639/model/api/SubscriptionStateNotificationEffectiveStatement.java
* /rfc8639-model-api-11-0-4-sources-1-
jar/org/opendaylight/yangtools/rfc8639/model/api/SubscribedNotificationsStatements.java

1.805 aaa-authn-api 0.18.3

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Found in path(s):
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/AuthenticationService.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/AuthenticationException.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/IdMService.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/PasswordCredentials.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/Authentication.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/TokenStore.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/Credentials.java
*
 /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/CredentialAuth.java
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* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Grant.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Domain.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/IDMError.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Role.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/User.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/TokenAuth.java
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* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/Claim.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Domains.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/UserPwd.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Claim.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Grants.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Roles.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/model/Users.java
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* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/IIDMStore.java
* /aaa-authn-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/IDMStoreUtil.java
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1.806 yang-data-spi 11.0.4

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1.807 cds-access-api 8.0.3

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* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/Message.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TransactionAbortRequest.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/PersistenceProtocol.java

* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/LocalHistorySuccess.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TransactionMerge.java
*
/cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/RequestSuccess.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/RequestEnvelope.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ConnectClientSuccess.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/FutureVersionException.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/RequestFailure.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/LocalHistoryFailure.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/TransactionIdentifier.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/AbstractLocalTransactionRequest.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/DeadHistoryException.java
*
/cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/IncrementTransactionSequenceSuccess.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/AbstractVersionException.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/ResponseEnvelope.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/TransactionDataModification.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/TransactionPreCommitSuccess.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/ABIVersion.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/FailureEnvelope.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/package-info.java
*
/cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ModifyTransactionRequestBuilder.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/DeadTransactionException.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/PastVersionException.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/FrontendIdentifier.java
* /cds-access-api-8-0-3-sources-1-
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* /cds-access-api-8-0-3-sources-1-
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* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ExistsTransactionRequest.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/ClientIdentifier.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TransactionFailure.java
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/cds-access-api-8-0-3-sources-1-
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* /cds-access-api-8-0-3-sources-1-

jar/org/opendaylight/controller/cluster/access/commands/CommitLocalTransactionRequest.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/concepts/RuntimeRequestException.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/CreateLocalHistoryRequest.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ReadTransactionRequest.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/Response.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ReadTransactionSuccess.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/OutOfOrderRequestException.java
*
/cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/DestroyLocalHistoryRequest.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/TransactionCanCommitSuccess.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/TransactionDoCommitRequest.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/SuccessEnvelope.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/UnknownHistoryException.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/TransactionModification.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/package-info.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/PurgeLocalHistoryRequest.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/RequestException.java
*
/cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ModifyTransactionSuccess.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ConnectClientFailure.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TransactionSuccess.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/NotLeaderException.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/concepts/RetiredGenerationException.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/package-info.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/TransactionPreCommitRequest.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/AbortLocalTransactionRequest.java
*
/cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/LocalHistoryIdentifier.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TransactionDelete.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/ModifyTransactionRequest.java

* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/FrontendType.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/TransactionCommitSuccess.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/concepts/UnsupportedRequestException.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/MemberName.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/Envelope.java
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jar/org/opendaylight/controller/cluster/access/commands/SkipTransactionsRequest.java
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* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/CCR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TPCR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TPCS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TCCS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/RE.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/MTS.java
*
 /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/CI.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/STR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/CCS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/STS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TPS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/TI.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/ITSS.java

* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/RTR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/MN.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TF.java
*
 /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/FE.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TCS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TAS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/HI.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TAR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/PHR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TPR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/HF.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/CCF.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/HS.java
*
 /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/RTS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/ETR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/CHR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/FI.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/DHR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/ETS.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/SE.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/ITSR.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/FT.java
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jar/org/opendaylight/controller/cluster/access/commands/LocalHistoryRequest.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/concepts/Request.java
* /cds-access-api-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/commands/AbstractReadTransactionRequest.java
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* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/OutOfSequenceEnvelopeException.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/AbstractReadPathTransactionRequest.java
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* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/TransactionPurgeRequest.java
* /cds-access-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/commands/ClosedTransactionException.java

1.808 mdsal-singleton-dom-impl 12.0.3

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* /mdsal-singleton-dom-impl-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/dom/impl/AbstractClusterSingletonServiceRegistration.java
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* /mdsal-singleton-dom-impl-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/dom/impl/di/DefaultClusterSingletonServiceProvider.java
* /mdsal-singleton-dom-impl-12-0-3-sources-1-jar/module-info.java
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* /mdsal-singleton-dom-impl-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/dom/impl/ClusterSingletonServiceGroupImpl.java
* /mdsal-singleton-dom-impl-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/dom/impl/ClusterSingletonServiceGroup.java
* /mdsal-singleton-dom-impl-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/dom/impl/DOMClusterSingletonServiceProviderImpl.java

1.809 cds-mgmt-api 8.0.3

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* /cds-mgmt-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/jmx/mbeans/DatastoreInfoMXBean.java
* /cds-mgmt-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/jmx/mbeans/DatastoreConfigurationMXBean.java
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jar/org/opendaylight/controller/cluster/datastore/jmx/mbeans/shard/ShardDataTreeListenerInfoMXBean.java
* /cds-mgmt-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/mgmt/api/DataTreeListenerInfo.java
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jar/org/opendaylight/controller/cluster/datastore/jmx/mbeans/CommitStatsMXBean.java

1.810 mdsal-binding-dom-codec 12.0.3

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jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerSerializerRegistry.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ValueNodeCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/MapCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/UnionTypeCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/UnionValueOptionContext.java
*
 /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/SchemaUnawareCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/BindingToNormalizedStreamWriter.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CaseCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerSerializer.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CommonDataObjectCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/EnumerationCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ChoiceCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecContextFactory.java
*

/mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/IdentifiableItemCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ListCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CompositeValueCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ContainerLikeCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/AugmentationCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/BitsCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/EncapsulatedValueCodec.java
*
/mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/BindingCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecContextSupplier.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataObjectCodecContext.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/LazyBindingMap.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LazyBindingMapLookupState.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LazyBindingMapIterState.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LazyBindingList.java
*
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/SimpleBindingCodecTreeFactory.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/ListCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ChoiceCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CommonDataObjectCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CaseCodecPrototype.java
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 /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecItemFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataObjectCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/MapCodecPrototype.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/ContainerLikeCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractDataObjectCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/AugmentationCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractDataContainerAnalysis.java
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* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractValueCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/di/DefaultBindingDOMCodecFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecPackage.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/di/DefaultBindingDOMCodecServices.java
*
 /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/di/DefaultBindingCodecTreeFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/di/package-info.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/StructuralContainerCodecContext.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/IdentityCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/NonCachingCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ForwardingBindingStreamEventWriter.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/NormalizedNodeWriterWithAddChild.java
*
/mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/NotificationCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/InstanceIdentifierCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ValueContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CachingNormalizedNodeCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataObjectNormalizedNodeCache.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CachingNormalizedNodeSerializer.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/AnyxmlCodecContext.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/AnydataBindingStreamWriter.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LeafNodeCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecDataObject.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerStreamerGenerator.java
*
/mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ClassGeneratorBridge.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LeafSetNodeCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecDataObjectGenerator.java

* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AnydataCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/TypeObjectNormalizedNodeCache.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/ByteBuddyUtils.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecOpaqueObject.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerStreamer.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/ForeignOpaqueData.java
*
/mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AugmentableCodecDataObject.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractBindingNormalizedNodeCache.java
* /mdsal-binding-dom-codec-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractOpaqueCodecContext.java

1.811 rfc8040-model-api 11.0.4

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1.812 restconf-common 6.0.5

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* /restconf-common-6-0-5-sources-1-jar/org/opendaylight/restconf/common/patch/PatchEditOperation.java
* /restconf-common-6-0-5-sources-1-jar/org/opendaylight/restconf/common/patch/PatchStatusEntity.java
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1.813 sal-akka-segmented-journal 8.0.3

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jar/org/opendaylight/controller/akka/segjournal/DataJournalEntry.java
* /sal-akka-segmented-journal-8-0-3-sources-1-
jar/org/opendaylight/controller/akka/segjournal/DataJournalEntrySerializer.java
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1.814 mdsal-dom-api 12.0.3

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* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMActionNotAvailableException.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMActionAvailabilityExtension.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMActionException.java
* /mdsal-dom-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/api/DOMTransactionChainClosedException.java

*
 /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMActionServiceExtension.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeTransaction.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMActionImplementation.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMActionService.java
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* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMNotificationPublishService.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMMountPointService.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMService.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMTransactionChain.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeWriteTransaction.java
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 /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMMountPoint.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMMountPointListener.java
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* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataBrokerExtension.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcImplementationRegistration.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcAvailabilityListener.java
* /mdsal-dom-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/api/DOMRpcImplementationNotAvailableException.java

* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMSchemaServiceExtension.java
*
 /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcResult.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcProviderService.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcImplementation.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeCommitCohortRegistry.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeChangeListener.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMExtensibleService.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcService.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcException.java
* /mdsal-dom-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/api/DOMDataTreeCommitCohortRegistration.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeChangeService.java
*
 /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMRpcIdentifier.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMNotificationRejectedException.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeCommitCohort.java
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* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMYangTextSourceProvider.java
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* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/query/DOMQuery.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/query/DOMQueryLike.java
* /mdsal-dom-api-12-0-3-sources-1-jar/module-info.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeQueryReadTransaction.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeQueryOperations.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/query/DOMQueryResult.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/query/SimpleDOMQueryResult.java
*
 /mdsal-dom-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/dom/api/DOMDataTreeQueryReadWriteTransaction.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/query/DOMQueryPredicate.java
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* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeReadOperations.java
* /mdsal-dom-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeWriteOperations.java

1.815 yang-data-tree-spi 11.0.4

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* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveDeleteCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/UnmodifiedLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractRecursiveCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/WriteLeafCandidateNode.java
*

/yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractWriteCandidate.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/DefaultDataTreeCandidate.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/NormalizedNodeDataTreeCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveReplaceCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/DataTreeCandidates.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveWriteCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/DataTreeCandidateNodes.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/DeleteLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/ReplaceLeafCandidateNode.java
*
/yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractAvailableLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveUnmodifiedCandidateNode.java
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1.816 rfc6241 6.0.5

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* /rfc6241-6-0-5-sources-1-jar/META-INF/yang/ietf-netconf@2011-06-01.yang
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* This version of this YANG module is part of RFC 6241; see the RFC itself for
* full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-netconf
* <pre>
* module ietf-netconf {
*   namespace urn:ietf:params:xml:ns:netconf:base:1.0;
*   prefix nc;
*   import ietf-inet-types {
*   prefix inet;
*   }
*   revision 2011-06-01 {
*   }
*   extension get-filter-element-attributes
 {
*   }
*   feature writable-running {
*   }
*   feature candidate {
*   }
*   feature confirmed-commit {
*   if-feature candidate;
*   }
*   feature rollback-on-error {
*   }
*   feature validate {

```
*   }
*   feature startup {
*   }
*   feature url {
*   }
*   feature xpath {
*   }
*   typedef session-id-type {
*     type uint32 {
*       range 1..max;
*     }
*   }
*   typedef session-id-or-zero-type {
*     type uint32;
*   }
*   typedef error-tag-type {
*     type enumeration {
*       enum in-use {
*       }
*       enum invalid-value {
*       }
*       enum too-big {
*       }
*       enum missing-attribute {
*       }
*       enum bad-attribute {
*       }
*       enum unknown-attribute {
*       }
*       enum missing-element {
*       }
*       enum bad-element {
*       }
*       enum unknown-element {
*       }
*       enum unknown-namespace {
*       }
*       enum access-denied {
*       }
*       enum lock-denied {
 *       }
*       enum resource-denied {
*       }
*       enum rollback-failed {
*       }
*       enum data-exists {
*       }
*       enum data-missing {
```

```
*       }
*       enum operation-not-supported {
*       }
*       enum operation-failed {
*       }
*       enum partial-operation {
*       }
*       enum malformed-message {
*       }
*     }
*   }
*   typedef error-severity-type {
*     type enumeration {
*       enum error {
*       }
*       enum warning {
*       }
*     }
*   }
*   typedef edit-operation-type {
*     type enumeration {
*       enum merge {
*       }
*       enum replace {
*       }
*       enum create {
*       }
*       enum delete {
*       }
*       enum remove {
*       }
*     }
*     default merge;
*   }
*   rpc get-config {
*     input input {
*       container source {
*         choice config-source {
*           leaf candidate {
*             if-feature candidate;
*             type empty;
*
    }
*           leaf running {
*             type empty;
*           }
*           leaf startup {
*             if-feature startup;
```

```
*           type empty;
*         }
*       }
*     }
*     anyxml filter {
*       nc:get-filter-element-attributes;
*     }
*   }
*   output output {
*     anyxml data {
*     }
*   }
* }
* rpc edit-config {
*   input input {
*     container target {
*       choice config-target {
*         leaf candidate {
*           if-feature candidate;
*           type empty;
*         }
*         leaf running {
*           if-feature writable-running;
*           type empty;
*         }
*       }
*     }
*     leaf default-operation {
*       type enumeration {
*         enum merge {
*         }
*         enum replace {
*         }
*         enum none {
*         }
*       }
*       default merge;
*     }
*     leaf test-option {
*       if-feature
 validate;
*       type enumeration {
*         enum test-then-set {
*         }
*         enum set {
*         }
*         enum test-only {
*         }
```

```
*        }
*        default test-then-set;
*      }
*      leaf error-option {
*        type enumeration {
*          enum stop-on-error {
*          }
*          enum continue-on-error {
*          }
*          enum rollback-on-error {
*          }
*        }
*        default stop-on-error;
*      }
*      choice edit-content {
*        anyxml config {
*        }
*        leaf url {
*          if-feature url;
*          type inet:uri;
*        }
*      }
*    }
*  }
*  rpc copy-config {
*    input input {
*      container target {
*        choice config-target {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
*            if-feature writable-running;
*
   type empty;
*          }
*          leaf startup {
*            if-feature startup;
*            type empty;
*          }
*          leaf url {
*            if-feature url;
*            type inet:uri;
*          }
*        }
*      }
*      container source {
```

```
*        choice config-source {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
*            type empty;
*          }
*          leaf startup {
*            if-feature startup;
*            type empty;
*          }
*          leaf url {
*            if-feature url;
*            type inet:uri;
*          }
*          anyxml config {
*          }
*        }
*      }
*    }
*  }
*  rpc delete-config {
*    input input {
*      container target {
*        choice config-target {
*          leaf startup {
*            if-feature startup;
*            type empty;
*
 }
*          leaf url {
*            if-feature url;
*            type inet:uri;
*          }
*        }
*      }
*    }
*  }
*  rpc lock {
*    input input {
*      container target {
*        choice config-target {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
```

```
*           type empty;
*         }
*         leaf startup {
*           if-feature startup;
*           type empty;
*         }
*       }
*     }
*   }
*  }
*  rpc unlock {
*    input input {
*      container target {
*        choice config-target {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
*            type empty;
*          }
*          leaf startup {
*            if-feature startup;
*            type empty;
*          }
*        }
*      }
*    }
*  }
*  rpc get
 {
*    input input {
*      anyxml filter {
*        nc:get-filter-element-attributes;
*      }
*    }
*    output output {
*      anyxml data {
*      }
*    }
*  }
*  rpc close-session {
*  }
*  rpc kill-session {
*    input input {
*      leaf session-id {
*        type session-id-type;
*      }
```

```
*     }
*   }
*   rpc commit {
*     if-feature candidate;
*     input input {
*       leaf confirmed {
*         if-feature confirmed-commit;
*         type empty;
*       }
*       leaf confirm-timeout {
*         if-feature confirmed-commit;
*         type uint32 {
*           range 1..max;
*         }
*         units seconds;
*         default 600;
*       }
*       leaf persist {
*         if-feature confirmed-commit;
*         type string;
*       }
*       leaf persist-id {
*         if-feature confirmed-commit;
*         type string;
*       }
*     }
*   }
*   rpc discard-changes {
*     if-feature candidate;
*   }
 *   rpc cancel-commit {
*     if-feature confirmed-commit;
*     input input {
*       leaf persist-id {
*         type string;
*       }
*     }
*   }
*   rpc validate {
*     if-feature validate;
*     input input {
*       container source {
*         choice config-source {
*           leaf candidate {
*             if-feature candidate;
*             type empty;
*           }
*           leaf running {
```

```
*           type empty;
*         }
*         leaf startup {
*           if-feature startup;
*           type empty;
*         }
*         leaf url {
*           if-feature url;
*           type inet:uri;
*         }
*         anyxml config {
*         }
*       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6241-6-0-5-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/netconf/base/_1/_0/rev110601/IetfNetconfData.java

1.817 rfc6241-model-api 11.0.4

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Found in path(s):
* /rfc6241-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6241/model/api/GetFilterElementAttributesSchemaNode.java
* /rfc6241-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6241/model/api/GetFilterElementAttributesEffectiveStatement.java
* /rfc6241-model-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc6241/model/api/package-info.java

1.818 general-entity 12.0.3

1.818.1 Available under license :

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-->

Found in path(s):
* /general-entity-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.model/general-entity/pom.xml

1.819 mdsal-singleton-common-api 12.0.3

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Found in path(s):
* /mdsal-singleton-common-api-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-singleton-common-api/pom.xml

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Found in path(s):
* /mdsal-singleton-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/common/api/ClusterSingletonServiceRegistration.java
* /mdsal-singleton-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/common/api/ClusterSingletonService.java
* /mdsal-singleton-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/common/api/ClusterSingletonServiceProvider.java
* /mdsal-singleton-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/singleton/common/api/ServiceGroupIdentifier.java

1.820 yang-parser-api 11.0.4

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Found in path(s):
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangParserFactory.java
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangParser.java
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangParserException.java
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Found in path(s):
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Found in path(s):
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangLibSubmodule.java
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangLibModuleSet.java
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangLibModule.java
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangLibResolver.java
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Found in path(s):
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/package-info.java
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/YangParserConfiguration.java
* /yang-parser-api-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/api/ImportResolutionMode.java
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Found in path(s):
* /yang-parser-api-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/yang-parser-api/pom.xml

1.821 rfc8639-parser-support 11.0.4

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Found in path(s):
* /rfc8639-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8639/parser/SubscriptionStateNotificationStatementSupport.java
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* /rfc8639-parser-support-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/rfc8639-parser-support/pom.xml
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Found in path(s):
* /rfc8639-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8639/parser/SubscriptionStateNotificationStatementImpl.java
* /rfc8639-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8639/parser/SubscriptionStateNotificationEffectiveStatementImpl.java
* /rfc8639-parser-support-11-0-4-sources-1-jar/org/opendaylight/yangtools/rfc8639/parser/RefSubscriptionStateNotificationStatement.java

1.822 rfc8342-ietf-origin 12.0.3

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* /rfc8342-ietf-origin-12-0-3-sources-1-jar/META-INF/yang/ietf-origin@2018-02-14.yang
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* This YANG module defines an 'origin' metadata annotation and a set of
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* part of RFC 8342 (https://www.rfc-editor.org/info/rfc8342); see the RFC itself
* for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-origin

```
* <pre>
* module ietf-origin {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-origin;
*   prefix or;
*   import
 ietf-yang-metadata {
*     prefix md;
*   }
*   revision 2018-02-14 {
*   }
*   identity origin {
*   }
*   identity intended {
*     base origin;
*   }
*   identity dynamic {
*     base origin;
*   }
*   identity system {
*     base origin;
*   }
*   identity learned {
*     base origin;
*   }
*   identity default {
*     base origin;
*   }
*   identity unknown {
*     base origin;
*   }
*   typedef origin-ref {
*     type identityref {
*       base origin;
*     }
*   }
*   md:annotation origin {
*     type origin-ref;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8342-ietf-origin-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/origin/rev180214/IetfOriginData.java

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Found in path(s):
* /rfc8342-ietf-origin-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc8342-ietf-origin/pom.xml

1.823 cds-access-client 8.0.3

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Found in path(s):
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Found in path(s):
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/RequestTimeoutException.java
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Found in path(s):
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/AbstractClientConnection.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/RecoveringClientActorBehavior.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/NoProgressException.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/AveragingProgressTracker.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/InitialClientActorContext.java
*
 /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/TxDetails.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/ClientActorBehavior.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/TransmittedConnectionEntry.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/InversibleLock.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/InternalCommand.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/ConnectingClientConnection.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/SavingClientActorBehavior.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/AbstractClientActorContext.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/package-info.java
*
 /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/InversibleLockException.java
* /cds-access-client-8-0-3-sources-1-
jar/org/opendaylight/controller/cluster/access/client/ConnectedClientConnection.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/ConnectionEntry.java
* /cds-access-client-8-0-3-sources-1-

jar/org/opendaylight/controller/cluster/access/client/RecoveredClientActorBehavior.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/ReconnectingClientConnection.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/AbstractReceivingClientConnection.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/AbstractClientActor.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/AbstractClientActorBehavior.java
*
/cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/BackendInfoResolver.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/BackendInfo.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/ReconnectForwarder.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/TransmitQueue.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/RequestCallback.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/ClientActorContext.java
* /cds-access-client-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/access/client/SimpleReconnectForwarder.java

1.824 rfc6991-ietf-yang-types 12.0.3

1.824.1 Available under license :

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/**
* This module contains a collection of generally useful derived YANG data types.
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* of RFC 6991; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-yang-types
* <pre>
* module ietf-yang-types {
* namespace urn:ietf:params:xml:ns:yang:ietf-yang-types;
* prefix yang;
* revision 2013-07-15 {
* }
* revision 2010-09-24 {
* }
* typedef counter32 {
*
  type uint32;
* }

```
*   typedef zero-based-counter32 {
*     type yang:counter32;
*     default 0;
*   }
*   typedef counter64 {
*     type uint64;
*   }
*   typedef zero-based-counter64 {
*     type yang:counter64;
*     default 0;
*   }
*   typedef gauge32 {
*     type uint32;
*   }
*   typedef gauge64 {
*     type uint64;
*   }
*   typedef object-identifier {
*     type string {
*       pattern (([0-1](\.[1-3]?[0-9]))|(2\.(0|([1-9]\d*))))(\.(0|([1-9]\d*)))*;
*     }
*   }
*   typedef object-identifier-128 {
*     type object-identifier {
*       pattern "\d*(\.\d*){1,127}";
*     }
*   }
*   typedef yang-identifier {
*     type string {
*       length 1..max;
*       pattern [a-zA-Z_][a-zA-Z0-9\-_.]*;
*       pattern .|..|[^xX].*|.[^mM].*|..[^lL].*;
*     }
*   }
*   typedef date-and-time {
*     type string {
*       pattern "\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z|[\+\-]\d{2}:\d{2})";
*     }
*   }
*   typedef timeticks {
*     type
 uint32;
*   }
*   typedef timestamp {
*     type yang:timeticks;
*   }
*   typedef phys-address {
*     type string {
```

```
*       pattern "([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?";
*     }
*   }
*   typedef mac-address {
*     type string {
*       pattern "[0-9a-fA-F]{2}(:[0-9a-fA-F]{2}){5}";
*     }
*   }
*   typedef xpath1.0 {
*     type string;
*   }
*   typedef hex-string {
*     type string {
*       pattern "([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?";
*     }
*   }
*   typedef uuid {
*     type string {
*       pattern "[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}";
*     }
*   }
*   typedef dotted-quad {
*     type string {
*       pattern "(([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-
5])";
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6991-ietf-yang-types-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/types/rev130715/IetfYangTypesData.java
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* /rfc6991-ietf-yang-types-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/types/rev130715/IetfYangUtil.java

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* /rfc6991-ietf-yang-types-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc6991-ietf-yang-types/pom.xml

1.825 aaa-idm-store-h2 0.18.3

1.825.1 Available under license :

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*/

Found in path(s):
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/H2TokenStore.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
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Found in path(s):
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/IdmLightConfig.java
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/GrantStore.java
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/UserStore.java
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/RoleStore.java
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Found in path(s):
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/StoreException.java
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Found in path(s):
* /aaa-idm-store-h2-0-18-3-sources-1-
jar/org/opendaylight/aaa/datastore/h2/IdmLightSimpleConnectionProvider.java
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Found in path(s):
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/ConnectionProvider.java
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Found in path(s):
* /aaa-idm-store-h2-0-18-3-sources-1-jar/org/opendaylight/aaa/datastore/h2/SQLTable.java
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Found in path(s):
* /aaa-idm-store-h2-0-18-3-sources-1-jar/META-INF/maven/org.opendaylight.aaa/aaa-idm-store-h2/pom.xml

1.826 yang-xpath-impl 11.0.4

1.826.1 Available under license :

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-->

Found in path(s):
* /yang-xpath-impl-11-0-4-sources-1-jar/META-INF/maven/org.opendaylight.yangtools/yang-xpath-impl/pom.xml
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Found in path(s):
* /yang-xpath-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/xpath/impl/AntlrYangXPathExpression.java
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/AntlrXPathParserFactory.java
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/FunctionSupport.java
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/AntlrXPathParser.java
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Found in path(s):
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/antlr/package-info.java
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Found in path(s):
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Found in path(s):
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/CapturingErrorListener.java
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/InstanceIdentifierParser.java
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/Utils.java
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/ParseTreeUtils.java
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Found in path(s):
* /yang-xpath-impl-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/xpath/impl/di/DefaultXPathParserFactory.java
* /yang-xpath-impl-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/xpath/impl/di/package-info.java

* /yang-xpath-impl-11-0-4-sources-1-jar/module-info.java

1.827 rfc8040 12.0.3

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* /rfc8040-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc8040/pom.xml
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/**
* This module contains conceptual YANG specifications for basic RESTCONF media
* type definitions used in RESTCONF protocol messages. Note that the YANG
* definitions within this module do not represent configuration data of any kind.
* The 'restconf-media-type' YANG extension statement provides a normative syntax
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* This version of this YANG module is part of RFC 8040; see the RFC itself for
* full legal notices.
*
* <p>
* This class represents
 the following YANG schema fragment defined in module ietf-restconf
* <pre>
* module ietf-restconf {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-restconf;
*   prefix rc;
*   revision 2017-01-26 {
*   }
*   extension yang-data {
*   argument name {
*   yin-element true;
*   }

```
*   }
*   rc:yang-data yang-errors {
*     uses errors;
*   }
*   rc:yang-data yang-api {
*     uses restconf;
*   }
*   grouping errors {
*     container errors {
*       list error {
*         leaf error-type {
*           type enumeration {
*             enum transport {
*             }
*             enum rpc {
*             }
*             enum protocol {
*             }
*             enum application {
*             }
*           }
*         }
*         leaf error-tag {
*           type string;
*         }
*         leaf error-app-tag {
*           type string;
*         }
*         leaf error-path {
*           type instance-identifier;
 *         }
*         leaf error-message {
*           type string;
*         }
*         anydata error-info {
*         }
*       }
*     }
*   }
*   grouping restconf {
*     container restconf {
*       container data {
*       }
*       container operations {
*       }
*       leaf yang-library-version {
*         type string {
*           pattern "\d{4}-\d{2}-\d{2}";
```

```
*         }
*         config false;
*       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8040-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/restconf/rev170126/IetfRestconfData.java
No license file was found, but licenses were detected in source scan.

```
module ietf-restconf {
 yang-version 1.1;
 namespace "urn:ietf:params:xml:ns:yang:ietf-restconf";
 prefix "rc";

 organization
   "IETF NETCONF (Network Configuration) Working Group";

 contact
  "WG Web:   <https://datatracker.ietf.org/wg/netconf/>
   WG List:  <mailto:netconf@ietf.org>

   Author:   Andy Bierman
             <mailto:andy@yumaworks.com>

   Author:   Martin Bjorklund
             <mailto:mbj@tail-f.com>

   Author:   Kent Watsen
             <mailto:kwatsen@juniper.net>";

 description
   "This module contains conceptual YANG specifications
   for basic RESTCONF media type definitions used in
   RESTCONF protocol messages.

   Note that the YANG definitions within this module do not
   represent configuration data of any kind.
   The 'restconf-media-type' YANG extension statement
   provides a normative syntax for XML and JSON
   message-encoding purposes.
```

```
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   (http://trustee.ietf.org/license-info).

   This version of this YANG module is part of RFC 8040; see
   the RFC itself for full legal notices.";

revision 2017-01-26 {
  description
    "Initial revision.";
  reference
    "RFC 8040: RESTCONF Protocol.";
}

extension yang-data {
  argument name {
    yin-element true;
  }
  description
    "This extension is used to specify a YANG data template that
     represents conceptual data defined in YANG.  It is
     intended to describe hierarchical data independent of
     protocol context or specific message-encoding
format.
     Data definition statements within a yang-data extension
     specify the generic syntax for the specific YANG data
     template, whose name is the argument of the 'yang-data'
     extension statement.

     Note that this extension does not define a media type.
     A specification using this extension MUST specify the
     message-encoding rules, including the content media type.

     The mandatory 'name' parameter value identifies the YANG
     data template that is being defined.  It contains the
     template name.

     This extension is ignored unless it appears as a top-level
     statement.  It MUST contain data definition statements
     that result in exactly one container data node definition.
     An instance of a YANG data template can thus be translated
     into an XML instance document, whose top-level element
```

```
    corresponds to the top-level container.
    The module name and namespace values for the YANG
module using
    the extension statement are assigned to instance document data
    conforming to the data definition statements within
    this extension.

    The substatements of this extension MUST follow the
    'data-def-stmt' rule in the YANG ABNF.

    The XPath document root is the extension statement itself,
    such that the child nodes of the document root are
    represented by the data-def-stmt substatements within
    this extension.  This conceptual document is the context
    for the following YANG statements:

      - must-stmt
      - when-stmt
      - path-stmt
      - min-elements-stmt
      - max-elements-stmt
      - mandatory-stmt
      - unique-stmt
      - ordered-by
      - instance-identifier data type

    The following data-def-stmt substatements are constrained
    when used within a 'yang-data' extension statement.

      - The list-stmt is not required to have a key-stmt defined.

  - The if-feature-stmt is ignored if present.
      - The config-stmt is ignored if present.
      - The available identity values for any 'identityref'
        leaf or leaf-list nodes are limited to the module
        containing this extension statement and the modules
        imported into that module.
    ";
}

rc:yang-data yang-errors {
  uses errors;
}

rc:yang-data yang-api {
  uses restconf;
}
```

```
grouping errors {
  description
    "A grouping that contains a YANG container
     representing the syntax and semantics of a
     YANG Patch error report within a response message.";

  container errors {
    description
      "Represents an error report returned by the server if
       a request results in an error.";

    list error {
      description
        "An entry containing information about one
         specific error that occurred while processing
         a RESTCONF request.";
      reference
        "RFC 6241,
Section 4.3.";

      leaf error-type {
        type enumeration {
          enum transport {
            description
              "The transport layer.";
          }
          enum rpc {
            description
              "The rpc or notification layer.";
          }
          enum protocol {
            description
              "The protocol operation layer.";
          }
          enum application {
            description
              "The server application layer.";
          }
        }
        mandatory true;
        description
          "The protocol layer where the error occurred.";
      }

      leaf error-tag {
        type string;
        mandatory true;
        description
```

```
        "The enumerated error-tag.";
      }

      leaf error-app-tag {
        type string;
        description
          "The application-specific error-tag.";
      }

      leaf error-path {
        type instance-identifier;
         description
          "The YANG instance identifier associated
           with the error node.";
      }

      leaf error-message {
        type string;
        description
          "A message describing the error.";
      }

      anydata error-info {
         description
          "This anydata value MUST represent a container with
           zero or more data nodes representing additional
           error information.";
      }
    }
  }
}

grouping restconf {
  description
    "Conceptual grouping representing the RESTCONF
     root resource.";

  container restconf {
    description
      "Conceptual container representing the RESTCONF
       root resource.";

    container data {
      description
        "Container representing the datastore resource.
         Represents the conceptual root of all state data
         and configuration data supported by the server.
         The child nodes of this
```

```
container can be any data
        resources that are defined as top-level data nodes
        from the YANG modules advertised by the server in
        the 'ietf-yang-library' module.";
    }

    container operations {
      description
        "Container for all operation resources.

        Each resource is represented as an empty leaf with the
        name of the RPC operation from the YANG 'rpc' statement.

        For example, the 'system-restart' RPC operation defined
        in the 'ietf-system' module would be represented as
        an empty leaf in the 'ietf-system' namespace.  This is
        a conceptual leaf and will not actually be found in
        the module:

          module ietf-system {
            leaf system-reset {
              type empty;
            }
          }

        To invoke the 'system-restart' RPC operation:

          POST /restconf/operations/ietf-system:system-restart

        To discover
the RPC operations supported by the server:

          GET /restconf/operations

        In XML, the YANG module namespace identifies the module:

          <system-restart
            xmlns='urn:ietf:params:xml:ns:yang:ietf-system'/>

        In JSON, the YANG module name identifies the module:

          { 'ietf-system:system-restart' : [null] }
        ";
    }
    leaf yang-library-version {
      type string {
        pattern '\d{4}-\d{2}-\d{2}';
      }
```

```
      config false;
      mandatory true;
      description
        "Identifies the revision date of the 'ietf-yang-library'
         module that is implemented by this RESTCONF server.
         Indicates the year, month, and day in YYYY-MM-DD
         numeric format.";
    }
  }
 }

}
```

Found in path(s):
* /rfc8040-12-0-3-sources-1-jar/META-INF/yang/ietf-restconf@2017-01-26.yang

1.828 logging-markers 13.0.7

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```

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*/
/**
    * Return the SLF4J marker for reporting messages which may contain sensitive information, such as credentials
    * used with an external system. This marker should be used by code components when dumping protocol data,
such
    * as NETCONF messages, which may contain user passwords and similar. Logging provider should be
configured to
    * redirect messages marked with this marker to a separate location which enjoys a higher level of confidentiality
```

* and protection than other messages.
*
* @return The confidential marker.
*/

Found in path(s):
* /logging-markers-13-0-7-sources-1-jar/org/opendaylight/odlparent/logging/markers/Markers.java

1.829 ietf-type-util 12.0.3

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* /ietf-type-util-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.model/ietf-type-util/pom.xml
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* /ietf-type-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/model/ietf/type/util/Ipv4Utils.java
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* /ietf-type-util-12-0-3-sources-1-jar/module-info.java

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*/
/**
* IPv6 address parsing for {@code ietf-inet-types} ipv6-address and ipv6-prefix. This is an internal implementation
* class, not meant to be used directly in any shape or form to the outside world, as the code relies on the fact that
* the strings presented to it have been previously validated to conform to the regular expressions defined in the
YANG
* model.
*
* <p>
* IPv6 routines added by Anton Ivanov on 14.6.2015, revised by Robert Varga
*
* <p>
* <b>BIG FAT WARNING!!!</b>
* Read all of the following before you touch any v6 code or decide to optimize it by invoking a "simple" Guava call.
 *
* <p>
* Java IPv6 is fundamentally broken and Google libraries do not fix it.
* <ol>
*   <li>Java will always implicitly rewrite v4 mapped into v6 as a v4 address and there is absolutely no way to
*       override this behaviour</li>
*   <li>Guava libraries cannot parse non-canonical IPv6. They will throw an exception. Even if they did, they re-use
*       the same broken java code underneath</li>
* </ol>
* This is why we have to parse v6 by ourselves.
*
* <p>
* The following conversion code is based on inet_cidr_pton_ipv6 in NetBSD.
*
* <p>
* The original BSD code is licensed under standard BSD license. While we are not obliged to provide an attribution,
* credit where credit is due. As far as why it is similar to Sun's sun.net.util please ask Sun why their code has the
* same variable names, comments and code flow.
*/
```

Found in path(s):
* /ietf-type-util-12-0-3-sources-1-jar/org/opendaylight/mdsal/model/ietf/type/util/Ipv6Utils.java

1.830 atomix-storage 8.0.3

1.830.1 Available under license :

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*/
```

Found in path(s):

* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/StorageException.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.
*/
/**
   * Smallest ID free to use for user defined registrations.
   */
```

Found in path(s):

* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/KryoJournalSerdes.java
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* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/ByteArrayOutput.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/BufferAwareByteArrayOutputStream.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/KryoIOPool.java
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* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/SegmentedJournal.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/JournalReader.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/Indexed.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/SegmentedJournalWriter.java
*
 /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/SegmentedJournalReader.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/Cleaner.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/MappedJournalSegmentReader.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/Journal.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/JournalSegment.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/FileChannelJournalSegmentReader.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/FileChannelJournalSegmentWriter.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/MappedJournalSegmentWriter.java

* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/JournalWriter.java
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* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/KryoOutputPool.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/KryoInputPool.java
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* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/JournalSerdes.java
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* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/KryoEntryOutput.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/EntrySerializer.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/RegisteredType.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/KryoEntryInput.java
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* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/JournalSegmentFile.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/JournalSegmentDescriptor.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/StorageLevel.java
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* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/package-info.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/MappableJournalSegmentWriter.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/index/JournalIndex.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/utils/serializer/package-info.java
*
 /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/MappableJournalSegmentReader.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/index/package-info.java
* /atomix-storage-8-0-3-sources-1-jar/io/atomix/storage/journal/index/SparseJournalIndex.java

1.831 rfc8072 12.0.3

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```
/**
* This module contains conceptual YANG specifications for the YANG Patch and YANG
* Patch Status data structures. Note that the YANG definitions within this module
* do not represent configuration data of any kind. The YANG grouping statements
* provide a normative syntax for XML and JSON message-encoding purposes.
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* of RFC 8072; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module
 <b>ietf-yang-patch</b>
* <pre>
* module ietf-yang-patch {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-yang-patch;
*   prefix ypatch;
*   import ietf-restconf {
*     prefix rc;
*   }
*   revision 2017-02-22 {
*   }
*   typedef target-resource-offset {
*     type string;
*   }
*   rc:yang-data yang-patch {
*     uses yang-patch;
*   }
*   rc:yang-data yang-patch-status {
*     uses yang-patch-status;
*   }
*   grouping yang-patch {
*     container yang-patch {
```

```
*       leaf patch-id {
*         type string;
*       }
*       leaf comment {
*         type string;
*       }
*       list edit {
*         key edit-id;
*         ordered-by user;
*         leaf edit-id {
*           type string;
*         }
*         leaf operation {
*           type enumeration {
*             enum create {
*             }
*             enum delete {
*             }
*             enum insert {
*             }
*             enum merge {
*
          }
*             enum move {
*             }
*             enum replace {
*             }
*             enum remove {
*             }
*           }
*         }
*         leaf target {
*           type target-resource-offset;
*         }
*         leaf point {
*           when "(../operation = 'insert' or ../operation = 'move')and (../where = 'before' or ../where = 'after')" {
*           }
*           type target-resource-offset;
*         }
*         leaf where {
*           when "../operation = 'insert' or ../operation = 'move'" {
*           }
*           type enumeration {
*             enum before {
*             }
*             enum after {
*             }
*             enum first {
```

```
*           }
*           enum last {
*           }
*         }
*         default last;
*       }
*       anydata value {
*         when "../operation = 'create' or ../operation = 'merge' or ../operation = 'replace' or ../operation = 'insert'"
 {
*         }
*       }
*     }
*   }
*  }
*  grouping yang-patch-status {
*    container yang-patch-status {
*      leaf patch-id {
*        type string;
*      }
*      choice global-status {
*        case global-errors {
*          uses rc:errors;
*        }
*        leaf ok {
*          type empty;
*        }
*      }
*      container edit-status {
*        list edit {
*          key edit-id;
*          leaf edit-id {
*            type string;
*          }
*          choice edit-status-choice {
*            leaf ok {
*              type empty;
*            }
*            case errors {
*              uses rc:errors;
*            }
*          }
*        }
*      }
*    }
*  }
* }
* </pre>
*
```

*/

Found in path(s):
* /rfc8072-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/patch/rev170222/IetfYangPatchData.java
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1.832 netconf-auth 6.0.5

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1.833 aaa-encrypt-service 0.18.3

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1.834 yang-model-spi 11.0.4

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jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractEffectiveUnknownSchmemaNode.java
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* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/EffectiveStatementMixins.java
* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractUndeclaredEffectiveStatement.java
* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractDeclaredEffectiveStatement.java
* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractIndexedEffectiveStatement.java
*
 /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractDeclaredStatement.java
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* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/DefaultSchemaTreeInference.java
* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/AbstractEffectiveStatementInference.java
* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/SingletonNamespace.java
* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/ForwardingDeclaredStatement.java
* /yang-model-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractRefStatement.java
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1.835 sal-cluster-admin-impl 8.0.3

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* /sal-cluster-admin-impl-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/datastore/admin/ShardIdentifier.java

1.836 yang-parser-rfc7950 11.0.4

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* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/uses/FullCopiedUsesEffectiveStatement.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/AbstractSourceToken.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/AbstractImplicitStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/AbstractOperationContainerStatementSupport.java
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* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/TextToIRTransformer.java
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* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/path/PathExpressionParser.java

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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/if_feature/IfFeaturePredicateParser.java
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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefInstanceIdentifierSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/package-info.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefBitsSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/extension/UnrecognizedEffectiveStatement.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefEnumSpecification.java
*
 /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefDecimal64Specification.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefLeafrefSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefIdentityRefSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefUnionSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/AbstractTypeSupport.java
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*/

Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/antlr/package-info.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/XPathSupport.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/namespace/ModuleQNameToPrefix.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/augment/AugmentImplicitHandlingNamespace.java
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*/

Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/reactor/YangValidationBundles.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/EffectiveStmtUtils.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/BitsSpecificationImpl.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/module/ModuleEffectiveStatementImpl.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/LeafrefSpecificationImpl.java
*
 /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/UnionSpecificationImpl.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/YinStatementStreamSource.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/ArgumentContextUtils.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/AbstractEffectiveModule.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/IdentityRefSpecificationImpl.java
* /yang-parser-rfc7950-11-0-4-sources-1-

jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/Decimal64SpecificationImpl.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/namespace/StmtNamespaceContext.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/submodule/SubmoduleEffectiveStatementImpl.java
*
/yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/EnumSpecificationImpl.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/import_/ImportStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/module/ModuleStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/extension/ModelDefinedStatementDefinition.java
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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/SourceExceptionParser.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/AbstractParserErrorListener.java
* /yang-parser-rfc7950-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/StatementContextVisitor.java

1.837 aaa-filterchain 0.18.3

1.837.1 Available under license :

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Found in path(s):
* /aaa-filterchain-0-18-3-sources-1-jar/org/opendaylight/aaa/filterchain/filters/AAAFilterChain.java

* /aaa-filterchain-0-18-3-sources-1-jar/org/opendaylight/aaa/filterchain/filters/CustomFilterAdapter.java
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Found in path(s):
* /aaa-filterchain-0-18-3-sources-1-
jar/org/opendaylight/aaa/filterchain/configuration/CustomFilterAdapterListener.java
* /aaa-filterchain-0-18-3-sources-1-
jar/org/opendaylight/aaa/filterchain/configuration/impl/CustomFilterAdapterConfigurationImpl.java
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Found in path(s):
* /aaa-filterchain-0-18-3-sources-1-
jar/org/opendaylight/aaa/filterchain/configuration/CustomFilterAdapterConfiguration.java
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Found in path(s):
* /aaa-filterchain-0-18-3-sources-1-jar/META-INF/maven/org.opendaylight.aaa/aaa-filterchain/pom.xml
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Found in path(s):
* /aaa-filterchain-0-18-3-sources-1-jar/org/opendaylight/aaa/filterchain/configuration/CustomFilterAdapterConstants.java

1.838 netconf-dom-api 6.0.5

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Found in path(s):
* /netconf-dom-api-6-0-5-sources-1-jar/META-INF/maven/org.opendaylight.netconf/netconf-dom-api/pom.xml
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Found in path(s):
* /netconf-dom-api-6-0-5-sources-1-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMFieldsTransactionChain.java
* /netconf-dom-api-6-0-5-sources-1-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMDataBrokerFieldsExtension.java
* /netconf-dom-api-6-0-5-sources-1-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMFieldsReadTransaction.java
* /netconf-dom-api-6-0-5-sources-1-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMFieldsReadOperations.java
* /netconf-dom-api-6-0-5-sources-1-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMFieldsReadWriteTransaction.java
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* /netconf-dom-api-6-0-5-sources-1-jar/module-info.java
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Found in path(s):
* /netconf-dom-api-6-0-5-sources-1-jar/org/opendaylight/netconf/dom/api/NetconfDataTreeService.java

1.839 aaa-shiro-api 0.18.3

1.839.1 Available under license :

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public DomainsBuilder() {
public DomainsBuilder(Domain arg) {
public DomainsBuilder(Domains base) {
public DomainsKey key() {
public DomainsBuilder withKey(final DomainsKey key) {
public DomainsBuilder setDescription(final String value) {
public DomainsBuilder setDomainid(final String value) {
public DomainsBuilder setName(final String value) {
public DomainsBuilder addAugmentation(Augmentation<Domains> augmentation) {
public DomainsBuilder removeAugmentation(Class<? extends Augmentation<Domains>> augmentationType) {
public DomainsKey key() {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/domains/DomainsBuilder.java
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* /aaa-shiro-api-0-18-3-sources-1-jar/org/opendaylight/aaa/api/shiro/principal/ODLPrincipal.java
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public Domains getDomains() {
public Domains getDomains() {
public Domains nonnullDomains() {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-1-
jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/AuthenticationBuilder.java
No license file was found, but licenses were detected in source scan.

public DomainsBuilder() {
public DomainsBuilder(Domains base) {
public DomainsBuilder setDomains(final Map<DomainsKey,
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.aaa.rev161214.authentication.domains.Domain
s> values) {
public DomainsBuilder addAugmentation(Augmentation<Domains> augmentation) {
public DomainsBuilder removeAugmentation(Class<? extends Augmentation<Domains>> augmentationType) {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-1-
jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/DomainsBuil
der.java
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Found in path(s):
* /aaa-shiro-api-0-18-3-sources-1-jar/META-INF/maven/org.opendaylight.aaa/aaa-shiro-api/pom.xml
No license file was found, but licenses were detected in source scan.

public DomainsKey(@NonNull String _domainid) {
public DomainsKey(DomainsKey source) {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-1-
jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/domains/Do
mainsKey.java

1.840 rfc6991-ietf-inet-types 12.0.3

1.840.1 Available under license :

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Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc6991-ietf-inet-types/pom.xml
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public DomainName(String _value) {
public DomainName(DomainName source) {

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/DomainName.java
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public DomainName getDomainName() {

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/Host.java
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/**
* This module contains a collection of generally useful derived YANG data types
* for Internet addresses and related things. Copyright (c) 2013 IETF Trust and
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* YANG module is part of RFC 6991; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-inet-types
* <pre>

```
* module ietf-inet-types {
*   namespace urn:ietf:params:xml:ns:yang:ietf-inet-types;
*   prefix inet;
*   revision 2013-07-15 {
*   }
*   revision
 2010-09-24 {
*   }
*   typedef ip-version {
*     type enumeration {
*       enum unknown {
*         value 0;
*       }
*       enum ipv4 {
*         value 1;
*       }
*       enum ipv6 {
*         value 2;
*       }
*     }
*   }
*   typedef dscp {
*     type uint8 {
*       range 0..63;
*     }
*   }
*   typedef ipv6-flow-label {
*     type uint32 {
*       range 0..1048575;
*     }
*   }
*   typedef port-number {
*     type uint16 {
*       range 0..65535;
*     }
*   }
*   typedef as-number {
*     type uint32;
*   }
*   typedef ip-address {
*     type union {
*       type inet:ipv4-address;
*       type inet:ipv6-address;
*     }
*   }
*   typedef ipv4-address {
*     type string {
*       pattern "(([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-
```

5])(%[\p{N}\p{L}]+)?";
*   }
*   }
*   typedef ipv6-address {
*   type string {
*   pattern "((:|[0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(:|[0-9a-fA-F]{0,4}))|(((25[0-5]|2[0-4][0-9]|[01]?[0-9]?[0-9])\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9]?[0-9])))(%[\p{N}\p{L}]+)?";
*   pattern "(([^:]+:){6}(([^:]+:[^:]+)|(.*\..*))|((([^:]+:)*[^:]+)?::(([^:]+:)*[^:]+)?)(%.+)?";
*   }
*   }
*   typedef ip-address-no-zone {
*   type union {
*   type inet:ipv4-address-no-zone;
*   type inet:ipv6-address-no-zone;
*   }
*   }
*   typedef ipv4-address-no-zone {
*   type inet:ipv4-address {
*   pattern [0-9\.]*;
*   }
*   }
*   typedef ipv6-address-no-zone {
*   type inet:ipv6-address {
*   pattern [0-9a-fA-F:\.]*;
*   }
*   }
*   typedef ip-prefix {
*   type union {
*   type inet:ipv4-prefix;
*   type inet:ipv6-prefix;
*   }
*   }
*   typedef ipv4-prefix {
*   type string {
*   pattern "(([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])/(([0-9])|([1-2][0-9])|(3[0-2]))";
*   }
*   }
*   typedef ipv6-prefix {
*   type string {
*   pattern "((:|[0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(:|[0-9a-fA-F]{0,4}))|(((25[0-5]|2[0-4][0-9]|[01]?[0-9]?[0-9])\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9]?[0-9]))(/(([0-9])|([0-9]{2})|(1[0-1][0-9])|(12[0-8])))";
*   pattern "(([^:]+:){6}(([^:]+:[^:]+)|(.*\..*))|((([^:]+:)*[^:]+)?::(([^:]+:)*[^:]+)?)(/.+)";
*   }
*   }
*   typedef domain-name {
*   type string {

```
*       pattern "((([a-zA-Z0-9_]([a-zA-Z0-9\-_]){0,61})?[a-zA-Z0-9]\.)*([a-zA-Z0-9_]([a-zA-Z0-9\-_]){0,61})?[a-zA-Z0-9]\.?)|\.";
*       length 1..253;
*     }
*   }
*   typedef host {
*     type union {
*       type inet:ip-address;
*       type inet:domain-name;
*     }
*   }
*   typedef uri {
*     type string;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/IetfInetTypesData.java
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```

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```

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-1-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/IetfInetUtil.java

1.841 yang-data-codec-xml 11.0.4

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jar/org/opendaylight/yangtools/yang/data/codec/xml/PreferredPrefixes.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/InstanceIdentifierXmlCodec.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/AbstractInstanceIdentifierCodec.java
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jar/org/opendaylight/yangtools/yang/data/codec/xml/SchemalessXMLStreamWriterUtils.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/SchemaAwareXMLStreamWriterUtils.java

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* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/NumberXmlCodec.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/QuotedXmlCodec.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/EmptyXmlCodec.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/InstanceIdentifierDeserializer.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/XmlCodecFactory.java
*
 /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/AbstractXmlCodec.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/BooleanXmlCodec.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/XmlParserStream.java
* /yang-data-codec-xml-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/xml/IdentityrefXmlCodec.java
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jar/org/opendaylight/yangtools/yang/data/codec/xml/InstanceIdentifierSerializer.java
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jar/org/opendaylight/yangtools/yang/data/codec/xml/XMLStreamNormalizedNodeStreamWriter.java
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* /yang-data-codec-xml-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/xml/DOMSourceMountPointChild.java
* /yang-data-codec-xml-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/xml/DOMSourceAnydata.java

1.842 mdsal-binding-runtime-api 12.0.3

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* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/BindingRuntimeContext.java
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jar/org/opendaylight/mdsal/binding/runtime/api/AugmentableRuntimeType.java
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jar/org/opendaylight/mdsal/binding/runtime/api/InvokableRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/runtime/api/DataRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/runtime/api/RpcRuntimeType.java
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* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/NotificationRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/KeyRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/LeafRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/GeneratedRuntimeType.java
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 /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/CaseRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/ListRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/RuntimeGeneratedUnion.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/OpaqueRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/GroupingRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/RuntimeTypeContainer.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/IdentityRuntimeType.java
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* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/ModuleRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/api/AnyxmlRuntimeType.java
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*
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1.843 mdsal-binding-dom-codec-api 12.0.3

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* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingNormalizedNodeCodec.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingCodecTreeNode.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/MissingSchemaException.java
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* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingTypeObjectCodecTreeNode.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingOpaqueObjectCodecTreeNode.java
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* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingAugmentationCodecTreeNode.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/CommonDataObjectCodecTreeNode.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingYangDataCodec.java

1.844 cds-dom-api 8.0.3

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Found in path(s):
* /cds-dom-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/dom/api/LeaderLocation.java
* /cds-dom-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/dom/api/package-info.java
* /cds-dom-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/dom/api/LeaderLocationListenerRegistration.java
* /cds-dom-api-8-0-3-sources-1-jar/org/opendaylight/controller/cluster/dom/api/LeaderLocationListener.java

1.845 mdsal-eos-binding-adapter 12.0.3

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* /mdsal-eos-binding-adapter-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-eos-binding-adapter/pom.xml
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* /mdsal-eos-binding-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/OSGiEntityOwnershipService.java
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* /mdsal-eos-binding-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/DOMEntityOwnershipListenerAdapter.java
* /mdsal-eos-binding-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/BindingDOMEntityOwnershipServiceAdapter.java
* /mdsal-eos-binding-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/BindingEntityOwnershipCandidateRegistration.java
* /mdsal-eos-binding-adapter-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/BindingEntityOwnershipListenerRegistration.java

1.846 netconf-api 6.0.5

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* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/CapabilityURN.java
* /netconf-api-6-0-5-sources-1-jar/module-info.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NamespaceURN.java
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* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/messages/NotificationMessage.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/xml/XmlUtil.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/DocumentedException.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/xml/XmlElement.java
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* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/xml/XmlNetconfConstants.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NetconfSessionListenerFactory.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NetconfDeserializerException.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NetconfMessage.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/xml/UnexpectedElementException.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/messages/FramingMechanism.java
*
 /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NetconfExiSession.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NetconfTerminationReason.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/messages/HelloMessage.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NetconfSession.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/xml/MissingNameSpaceException.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/NetconfSessionListener.java
* /netconf-api-6-0-5-sources-1-
jar/org/opendaylight/netconf/api/messages/NetconfHelloMessageAdditionalHeader.java
* /netconf-api-6-0-5-sources-1-jar/org/opendaylight/netconf/api/xml/UnexpectedNamespaceException.java

1.847 netty-event-executor-config 0.19.3

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1.848 aaa-tokenauthrealm 0.18.3

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* /aaa-tokenauthrealm-0-18-3-sources-1-jar/org/opendaylight/aaa/tokenauthrealm/auth/PasswordCredentialBuilder.java
* /aaa-tokenauthrealm-0-18-3-sources-1-jar/org/opendaylight/aaa/tokenauthrealm/auth/ClaimBuilder.java
* /aaa-tokenauthrealm-0-18-3-sources-1-jar/org/opendaylight/aaa/tokenauthrealm/auth/AuthenticationBuilder.java
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1.849 yang-parser-spi 11.0.4

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jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractSchemaTreeStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractEmptyStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/CommonStmtCtx.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/EffectiveStmtCtx.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/NamespaceStmtCtx.java
*
 /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractQNameStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ParserNamespace.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractInternedStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/BoundStmtCtx.java
* /yang-parser-spi-11-0-4-sources-1-jar/module-info.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractStringStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractBooleanStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/RootStmtContext.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractUnqualifiedStatementSupport.java
*
 /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StmtContextCompat.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/BoundStmtCtxCompat.java
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* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/OverrideChildStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/EffectiveStatementState.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractInternedStringStatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/UndeclaredStatementFactory.java
*
/yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/QNameWithFlagsEffectiveStatementState.java
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* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/source/QNameToStatementDefinition.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/source/QNameToStatementDefinitionMap.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementSupport.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/NamespaceBehaviour.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/SomeModifiersUnresolvedException.java
*
/yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ReactorException.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/source/SourceException.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/source/StatementStreamSource.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/SubstatementValidator.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/MissingSubstatementException.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementDefinitions.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ModelActionBuilder.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/source/StatementWriter.java
*

/yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/validation/ValidationBundles.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/ModelProcessingPhase.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementFactory.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StmtContext.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/InvalidSubstatementException.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/InferenceException.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/NamespaceNotAvailableException.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/source/StatementSourceReference.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementSupportBundle.java
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jar/org/opendaylight/yangtools/yang/parser/spi/meta/OnDemandSchemaTreeStorage.java
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* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/MutableStatement.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/package-info.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/package-info.java
* /yang-parser-spi-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/parser/spi/source/ImplicitSubstatement.java
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* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/NamespaceBehaviours.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/source/PrefixResolver.java
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/ParserNamespaces.java
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Found in path(s):
* /yang-parser-spi-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ImplicitParentAwareStatementSupport.java

1.850 mdsal-binding-api 12.0.3

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* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataObjectModification.java

* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/NotificationRejectedException.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataTreeIdentifier.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataTreeModification.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/RpcProviderService.java
*
 /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataTreeChangeService.java
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* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/Transaction.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/ActionService.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/WriteOperations.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/ReadWriteOperations.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/ActionProviderService.java
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* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/ReadTransaction.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/NotificationService.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/NotificationPublishService.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/WriteTransaction.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/BindingService.java
*
 /mdsal-binding-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/api/TransactionChainClosedException.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/MountPointService.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/TransactionChain.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/RpcConsumerRegistry.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataBroker.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/MountPoint.java

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* /mdsal-binding-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/api/DataTreeCommitCohortRegistry.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataTreeCommitCohort.java
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* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataChangeListener.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataListenerAdapter.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/DataListener.java
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* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/InstanceNotificationSpec.java
* /mdsal-binding-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/binding/api/InstanceNotificationPublishService.java
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* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/QueryResult.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/DescendantQueryBuilder.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/QueryExecutor.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/QueryFactory.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/package-info.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/ComparableMatchBuilder.java
*
 /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/MatchBuilderPath.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/QueryExpression.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/StringMatchBuilder.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/ValueMatchBuilder.java
* /mdsal-binding-api-12-0-3-sources-1-jar/module-info.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/QueryReadWriteTransaction.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/QueryStructureException.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/QueryReadTransaction.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/QueryOperations.java
* /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/ValueMatch.java
*
 /mdsal-binding-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/api/query/StructuralBuilder.java

1.851 mdsal-binding-runtime-spi 12.0.3

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* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-binding-runtime-spi/pom.xml
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* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/spi/ForwardingBindingRuntimeContext.java
* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/spi/DefaultModuleInfoSnapshot.java
* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/spi/ServiceLoaderState.java
* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/spi/ForwardingModuleInfoSnapshot.java
* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/spi/ModuleInfoSnapshotResolver.java
*
 /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/spi/ModuleInfoSnapshotBuilder.java
* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/runtime/spi/BindingRuntimeHelpers.java
* /mdsal-binding-runtime-spi-12-0-3-sources-1-jar/module-info.java

1.852 concepts 11.0.4

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* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/Either.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/NoOpObjectRegistration.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/NoOpListenerRegistration.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/AbstractDelegator.java
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* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/Immutable.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/Registration.java

* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/Identifier.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/Mutable.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/ListenerRegistration.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/AbstractListenerRegistration.java
*
 /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/AbstractObjectRegistration.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/ObjectRegistration.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/AbstractRegistration.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/Identifiable.java
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* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/PrettyTree.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/PrettyTreeAware.java
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* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/AbstractIdentifiable.java
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* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/WritableIdentifier.java
* /concepts-11-0-4-sources-1-jar/org/opendaylight/yangtools/concepts/WritableObject.java
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1.853 sal-remoterpc-connector 8.0.3

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* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/RpcRegistry.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/gossip/Gossiper.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/OpsManager.java
* /sal-remoterpc-connector-8-0-3-sources-1-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketData.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/RemoteOpsProvider.java
*
 /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/gossip/Bucket.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/RoutingTable.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/OpsInvoker.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/OpsListener.java
* /sal-remoterpc-connector-8-0-3-sources-1-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketImpl.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/TerminationMonitor.java
* /sal-remoterpc-connector-8-0-3-sources-1-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketStoreAccess.java
* /sal-remoterpc-connector-8-0-3-sources-1-
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* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/mbeans/RemoteActionRegistryMXBean.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/messages/AbstractResponse.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/RemoteDOMActionFuture.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/RemoteDOMActionException.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/messages/ExecuteAction.java
*
/sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/messages/ActionResponse.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/ActionRegistry.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/mbeans/RemoteActionRegistryMXBeanImpl.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/messages/AbstractExecute.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/ActionRoutingTable.java
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* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/AbstractRemoteImplementation.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/AbstractRemoteFuture.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/mbeans/AbstractRegistryMXBean.java
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* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/messages/ExecuteRpc.java
* /sal-remoterpc-connector-8-0-3-sources-1-jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketStoreActor.java
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jar/org/opendaylight/controller/remote/rpc/registry/gossip/LocalBucket.java
* /sal-remoterpc-connector-8-0-3-sources-1-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/GossipEnvelope.java
* /sal-remoterpc-connector-8-0-3-sources-1-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/GossipStatus.java
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jar/org/opendaylight/controller/remote/rpc/registry/mbeans/RemoteRpcRegistryMXBeanImpl.java
* /sal-remoterpc-connector-8-0-3-sources-1-
jar/org/opendaylight/controller/remote/rpc/RemoteDOMRpcException.java
* /sal-remoterpc-connector-8-0-3-sources-1-
jar/org/opendaylight/controller/remote/rpc/RemoteOpsProviderFactory.java
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jar/org/opendaylight/controller/remote/rpc/OSGiRemoteOpsProvider.java

1.854 yang-data-codec-binfmt 11.0.4

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* /yang-data-codec-binfmt-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/QNameFactory.java
* /yang-data-codec-binfmt-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NormalizedNodeDataOutput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LithiumNode.java
* /yang-data-codec-binfmt-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractLithiumDataInput.java
*
 /yang-data-codec-binfmt-11-0-4-sources-1-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NormalizedNodeDataInput.java
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jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumNode.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NeonSR2NormalizedNodeInputStreamReader.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumPathArgument.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NeonSR2Tokens.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumValue.java
*
 /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumDataOutput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/SodiumSR1DataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractNormalizedNodeDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractMagnesiumDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumValue.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/VersionedNormalizedNodeDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/ForwardingNormalizedNodeDataInput.java
*

/yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/ForwardingDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NormalizedNodeStreamVersion.java
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jar/org/opendaylight/yangtools/yang/data/codec/binfmt/InvalidNormalizedNodeStreamException.java
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jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractNormalizedNodeDataOutput.java
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jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractDataTreeCandidateNode.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/ModifiedDataTreeCandidateNode.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/TokenTypes.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/DeletedDataTreeCandidateNode.java
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jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumNode.java
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jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LegacyMountPointIdentifier.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LegacyPathArgument.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LegacyAugmentationIdentifier.java
* /yang-data-codec-binfmt-11-0-4-sources-1-
jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumPathArgument.java
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1.855 mdsal-binding-dom-codec-osgi 12.0.3

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* /mdsal-binding-dom-codec-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/osgi/impl/GlobalBindingDOMCodecServices.java
* /mdsal-binding-dom-codec-osgi-12-0-3-sources-1-jar/org/opendaylight/mdsal/binding/dom/codec/osgi/impl/OSGiBindingDOMCodecServicesImpl.java
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1.856 mdsal-eos-common-api 12.0.3

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* /mdsal-eos-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipListener.java
* /mdsal-eos-common-api-12-0-3-sources-1-

jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipListenerRegistration.java
* /mdsal-eos-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/common/api/GenericEntity.java
* /mdsal-eos-common-api-12-0-3-sources-1-jar/org/opendaylight/mdsal/eos/common/api/EntityOwnershipState.java
* /mdsal-eos-common-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/eos/common/api/EntityOwnershipChangeState.java
*
/mdsal-eos-common-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipService.java
* /mdsal-eos-common-api-12-0-3-sources-1-
jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipCandidateRegistration.java
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1.857 distro 1.8.0

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* https://github.com/asottile
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Martin Richards
23 February 2007
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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

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

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By Sean Eron Anderson
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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
```

```
 </ItemGroup>
 <ItemGroup>
   <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
   <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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1.864 busybox 1.37.0-r12

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
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depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
bzip2 applet in busybox is based on lightly-modified source
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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Public License instead of this License.
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pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \

```
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

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http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39
https://analoguesque.x10host.com/
Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
mini_sendmail - accept email on behalf of real sendmail

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```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}
```

```
_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
```

11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
Contributor: Dhruvin Gandhi <contact@dhru.vin>
Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"

```
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
```

```
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

1.866 sqlite 3.48.0-r0

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 * All of the SQLite extension source code and test cases in the
    [ext/ directory](https://sqlite.org/src/tree/ext?type=tree&expand)
 * All code that ends up in the "sqlite3.c" and "sqlite3.h" build products
    that actually implement
 the SQLite RDBMS.
 * All of the code used to compile the
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words, there are some non-public-domain files used to implement:

> ~~~
./configure && make
~~~

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> ~~~
rm -rf configure autosetup autoconf
~~~

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---
autosetup - A build environment "autoconfigurator"

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1.867 bouncy-castle 1.80

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Found in path(s):
* /wscf11-4-17-7-final-redhat-4-jar/META-INF/maven/org.jboss.jbossts.xts/wscf11/effective-pom.xml

1.868 commons-net 3.11.0

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jQuery UI v1.13.2

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---
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include/GL/glxext.h
include/GL/wglxext.h :

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1.872 ca-certificates-bundle 20241121-r1

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Contributor: Patrycja Rosa <alpine@ptrcnull.me>
Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6

```
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
```

```
 --host=$CHOST \
 --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.873 alpine-baselayout-data 3.6.8-r1

1.873.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}
```

```
package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
```

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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=0
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
```

```
builddir="$srcdir"/$_pkgname-$pkgver

build() {
 cd "$builddir"
 python3 setup.py build || return 1
}

package() {
 cd "$builddir"
 python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

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sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-
0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c4993eeb90
  flake8-copyright-0.2.0.tar.gz"
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mini_sendmail - accept email on behalf of real sendmail

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SUCH DAMAGE.
Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=

```
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
```

```
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
```

1.874 python-certifi 2025.01.31

1.874.1 Available under license :

```
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
```

1.875 javax-activation 1.2.0

1.875.1 Available under license :

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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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
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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* 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
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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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
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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
 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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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

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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

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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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.eclipse.jetty.toolchain:jetty-schemas

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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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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1.884 pyc 3.12.9-r0

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Python was created in the early 1990s by Guido van Rossum at Stichting
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principal author, although it includes many contributions from others.

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

software.

In May 2000, Guido and the Python core development team moved to
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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
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1.6	1.5.2	2000	CNRI	no
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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
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2.0	1.6	2000	BeOpen.com	no
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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 https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(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
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Thanks to the many outside volunteers who have worked under Guido's
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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 (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

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

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

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2		2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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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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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes

2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.889 zstd 1.5.2

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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/SizeClassesMetric.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
*
 /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/AbstractByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PoolArena.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PoolSubpage.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PoolThreadCache.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PooledByteBufAllocator.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PoolChunk.java

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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/SwappedByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/package-info.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/ReadOnlyByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/ByteBufInputStream.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PooledByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/AbstractByteBufAllocator.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/ByteBufUtil.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PoolChunkList.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java

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 /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/search/SearchProcessor.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
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 /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java

* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/EmptyByteBuf.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/PoolArenaMetric.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaders.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/package-info.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
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jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java

* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
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 /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
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 /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java

* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /netty-codec-http-4-1-118-final-sources-
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /netty-codec-http-4-1-118-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
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 /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
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* /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/TooLongHttpContentException.java
*
 /netty-codec-http-4-1-118-final-sources-jar/io/netty/handler/codec/http/TooLongHttpLineException.java
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jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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* /netty-codec-socks-4-1-118-final-sources-
jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
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* /netty-codec-socks-4-1-118-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/package-info.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
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* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
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* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java
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* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
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* /netty-codec-socks-4-1-118-final-sources-
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* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /netty-codec-socks-4-1-118-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
*
 /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
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* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
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/netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
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/netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /netty-codec-socks-4-1-118-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java

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* /netty-handler-proxy-4-1-118-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /netty-handler-proxy-4-1-118-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /netty-handler-proxy-4-1-118-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
*
/netty-handler-proxy-4-1-118-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
* /netty-handler-proxy-4-1-118-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /netty-handler-proxy-4-1-118-final-sources-jar/io/netty/handler/proxy/package-info.java
* /netty-handler-proxy-4-1-118-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java

1.898 netty 4.1.118.Final

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* /netty-common-4-1-118-final-sources-jar/io/netty/util/NetUtilInitializations.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/NetUtilSubstitutions.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java
* /netty-common-4-1-118-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /netty-common-4-1-118-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpscLinkedArrayQueue.java

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/netty-common-4-1-118-final-sources-
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* /netty-common-4-1-118-final-sources-
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
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/netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
*
/netty-common-4-1-118-final-sources-jar/io/netty/util/HashingStrategy.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/AsyncMapping.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
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 /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/package-info.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/Future.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/ResourceLeak.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/FutureListener.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/EmptyArrays.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
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 /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/PlatformDependent0.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/ResourceLeakException.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
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 /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
*
 /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/IntSupplier.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/Attribute.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
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 /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/TimerTask.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/AbstractConstant.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/Timeout.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/AttributeMap.java

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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java

1.899 netty-codec-dns 4.1.118.Final

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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java

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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/package-info.java
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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java
* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
*
/netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
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/netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-118-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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/**
* 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
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* Base64 Encoder/Decoder</a>.
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/base64/package-info.java
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 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
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 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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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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*/
/**
* 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
* <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 | 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):
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
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 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/SelectStrategy.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java

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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/pool/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java

*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/FailedChannelFuture.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultEventLoop.java
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*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/EventLoop.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelException.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/EventLoopGroup.java
*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java

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 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/package-info.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/EventLoopException.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
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 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOption.java
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 /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/package-info.java

*
/netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
*
/netty-transport-4-1-118-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.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 (<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
* <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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* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
*
/netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
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* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
*
/netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/package-info.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /netty-transport-classes-epoll-4-1-118-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.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 <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
```

```
   * for more details.
   */
```

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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.
```

*/

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1.904 netty-transport-native-unix-common 4.1.118.Final

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jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/io/netty/channel/unix/Buffer.java
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1.905 netty-resolver-dns 4.1.118.Final

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* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
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jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
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* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
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* /netty-resolver-dns-4-1-118-final-sources-
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
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* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/ThreadLocalNameServerAddressStream.java
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 /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/DnsNameResolverChannelStrategy.java
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* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/NoopDnsCache.java
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* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
*
 /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/Cache.java
* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
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* /netty-resolver-dns-4-1-118-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java

1.906 netty-handler 4.1.118.Final

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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
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/netty-handler-4-1-118-final-sources-jar/io/netty/handler/address/package-info.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslInternalSession.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java

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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/logging/LogLevel.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/package-info.java
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1.914 json-smart 2.5.2

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Found in path(s):
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/DefaultMapper.java
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```
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```

Found in path(s):

* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserByteArray.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONObject.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/CollectionMapper.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/ArraysMapper.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONStreamAware.java
*
 /json-smart-2-5-2-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONAware.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/JsonReaderI.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/FakeMapper.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/ParseException.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONStyle.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONNavi.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/JsonReader.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/BeansMapper.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParser.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONValue.java
*
 /json-smart-2-5-2-sources-jar/net/minidev/json/JSONStreamAwareEx.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserString.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JStylerObj.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONArray.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserStream.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserBase.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserReader.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONUtil.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/CompressorMapper.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserMemory.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/JSONAwareEx.java

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Found in path(s):
* /json-smart-2-5-2-sources-jar/META-INF/maven/net.minidev/json-smart/pom.xml

1.915 wheel 0.45.1

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1.916 alpine-release 3.21.3-r0

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```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
```

```
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}
```

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00272d796ac634f0a5e1d49232b6b29d5 cargo-license-0.6.1.tar.gz
"
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Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \

```
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
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LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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SUCH DAMAGE.
Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.

```
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.917 tre 1.2.5-r9

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1.918 cachetools 5.5.2

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1.919 simple launcher 1.1.0.14

1.919.1 Available under license :

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 (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes

2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(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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==========
Distutils2 Contributors
==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
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- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!

Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ================================

Installing and Using Setuptools

==========

.. contents:: **Table of Contents**

Installation Instructions

Windows

=======

Install setuptools using the provided ``.exe`` installer. If you've previously installed older versions of setuptools, please delete all ``setuptools*.egg`` and ``setuptools.pth`` files from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer,
please be sure to also *uninstall that older version*
via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an ``easy_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems

==========

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``$prefix/bin`` for scripts), please use the ``.egg``-based
installation approach described in the
following section.

Cygwin, Mac OS X, Linux, Other
==========

1. Download the appropriate egg for your version of Python (e.g.
``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``.
Setuptools will install itself using the matching version of Python (e.g.
``python2.4``), and will place the ``easy_install`` executable in the
default location for installing Python scripts (as determined by the
standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or
your default distutils installation locations for libraries and scripts, you
may include EasyInstall command-line options such as ``--prefix``,
``--install-dir``, and so on, following the ``.egg`` filename
on the same
command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
for the **Windows** Python found at ``C:\\Python24``::

ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

---
Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `Package Compatibility Notes`_ (user-maintained)
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features, you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: http://bugs.python.org/setuptools/
.. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
.. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
.. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
.. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
.. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
---

* The original design for the ``.egg`` format and the ``pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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1.921 backports.tarfile 1.2.0

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1.922 importlib-metadata 8.0.0

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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlTransient.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlEnumValue.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlID.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlElementRefs.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ParseConversionEvent.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.java
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 /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlValue.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/JAXBElement.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAttribute.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Binder.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlMimeType.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Marshaller.java
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1.931 metrics-json 4.2.30

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.json
Build-Jdk-Spec: 17
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: 4.2.30
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics,
com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4
.2.30"
Implementation-Title: Jackson Integration for Metrics
Implementation-Version: 4.2.30
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.me
trics.health;version="[4.2,5)";resolution:=optional,com.fasterxml.jac
kson.core;version="[2.12,3)",com.fasterxml.jackson.databind;version="
[2.12,3)",com.fasterxml.jackson.databind.module;version="[2.12,3)",co
m.fasterxml.jackson.databind.ser;version="[2.12,3)",com.fasterxml.jac
kson.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):
* /metrics-json-4-2-30-jar/META-INF/MANIFEST.MF

1.932 jetty 9.4.57.v20241219

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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

If ALPN is used to negotiate HTTP/2 connections, then the following
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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
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http://openjdk.java.net/legal/gplv2+ce.html

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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

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following Apache Tomcat jars, all ASL2
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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
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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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  * use in the
 contribution. Contributions typically generate source code or
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  * <p>If the given bean factory does not contain anything that is relevant to
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```

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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/CharacterEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/BeanClassLoaderAware.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
*
 /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/Problem.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/BeansException.java
* /spring-beans-6-1-17-sources-
jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/PatternEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/ClassEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/FatalBeanException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
*
 /spring-beans-6-1-17-sources-
jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/BeanWrapper.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/SetFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerSupport.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/ListFactoryBean.java
*
 /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/Location.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java

* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/BeanDefinition.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/MapFactoryBean.java
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 /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/FactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/annotation/Value.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/annotation/Lookup.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/ReaderContext.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/PropertyAccessException.java
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/spring-beans-6-1-17-sources-
jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/PropertyValues.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/MethodInvocationException.java
* /spring-beans-6-1-17-sources-
jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/ManagedArray.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/InitializingBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/Mergeable.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/InvalidPropertyException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
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/spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/PropertyMatches.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/PropertyAccessorFactory.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/BeanInstantiationException.java
* /spring-beans-6-1-17-sources-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /spring-beans-6-1-17-sources-
jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
*

/spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/ObjectFactory.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/DisposableBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/NotWritablePropertyException.java
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* /spring-beans-6-1-17-sources-
jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/NotReadablePropertyException.java
*
/spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
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*/
/**
  * Process the given {@link RegisteredBean} instance ahead-of-time and
  * return a contribution or {@code null}.
```

```
 * <p>
 * Processors are free to use any techniques they like to analyze the given
 * instance. Most typically use reflection to find fields or methods to use
 * in the contribution. Contributions
typically generate source code or
 * resource files that can be used when the AOT optimized application runs.
 * <p>
 * If the given instance isn't relevant to the processor, it should return a
 * {@code null} contribution.
 * @param registeredBean the registered bean to process
 * @return a {@link BeanRegistrationAotContribution} or {@code null}
 */
```

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jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/PropertyValuesEditor.java
*
 /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/TypeMismatchException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/BeanFactoryUtils.java
*
 /spring-beans-6-1-17-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/AutowireCandidateResolver.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationCode.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/BeanDefinitionMethodGeneratorFactory.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationExcludeFilter.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/ManagedSet.java
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 /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/ListableBeanFactoryExtensions.kt
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsCode.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/ManagedMap.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/AutowiredArguments.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/ManagedList.java
*
 /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/AotServices.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/CharsetEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/SimpleBeanInfoFactory.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/AutowiredArgumentsCodeGenerator.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCode.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java

* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/PropertyAccessor.java
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jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotContribution.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/ReplaceOverride.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/parsing/ParseState.java

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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/ExtendedBeanInfo.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/TypeConverterSupport.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/BeanCreationException.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/YamlProcessor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/PropertyPathFactoryBean.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java

* /spring-beans-6-1-17-sources-jar/org/springframework/beans/support/MutableSortDefinition.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/support/ArgumentConvertingMethodInvoker.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/PropertyAccessorUtils.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/support/AutowireUtils.java
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* /spring-beans-6-1-17-sources-jar/org/springframework/beans/factory/aot/AutowiredFieldValueResolver.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/ConfigurablePropertyAccessor.java
* /spring-beans-6-1-17-sources-jar/org/springframework/beans/CachedIntrospectionResults.java
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* /spring-tx-6-1-17-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
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jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /spring-expression-6-1-17-sources-jar/org/springframework/expression/spel/CompiledExpression.java
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*

/spring-expression-6-1-17-sources-jar/org/springframework/expression/ParseException.java
* /spring-expression-6-1-17-sources-jar/org/springframework/expression/common/ExpressionUtils.java
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* 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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jar/org/springframework/transaction/aspectj/AspectJJtaTransactionManagementConfiguration.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
  * Create a Map of input parameters, keyed by name.
  * @param con a JDBC connection. This is useful (and the purpose of this interface)
  * if we need to do something RDBMS-specific with a proprietary Connection
  * implementation class. This class conceals such proprietary details. However,
  * it is best to avoid using such proprietary RDBMS features if possible.
  * @return a Map of input parameters, keyed by name (never {@code null})
  * @throws SQLException if an SQLException is encountered setting
  * parameter values (that is, there's no need to catch SQLException)
  */

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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
*
 /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/object/SqlFunction.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
* /spring-jdbc-6-1-17-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
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jar/org/springframework/jdbc/support/incrementer/SqlServerSequenceMaxValueIncrementer.java
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* /spring-jdbc-6-1-17-sources-
jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java

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/spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
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/spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
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jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/CallableStatementCallback.java
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*/
/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or
 wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException

*/

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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
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jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
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* /spring-jdbc-6-1-17-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /spring-jdbc-6-1-17-sources-
jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
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 /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/support/CustomSQLErrorCodesTranslation.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
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* /spring-jdbc-6-1-17-sources-
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/SqlReturnResultSet.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/object/SqlCall.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/ConnectionCallback.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/object/SqlOperation.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
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* /spring-jdbc-6-1-17-sources-
jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/support/SqlBinaryValue.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
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/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
*
* Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* Present exceptions to application code in a generic hierarchy of

* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
*
*
* <p>This package and related packages are discussed in Chapter 9 of
* Expert One-On-One J2EE Design and Development
* by Rod Johnson (Wrox, 2002).
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*/
/**
  * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
  * Will not need to do anything if using PreparedStatement's standard methods,
  * but might be necessary to free database resources if using proprietary means.
  * <p>NOTE: Needs to be invoked after the involved
 PreparedStatements have
  * been executed or the affected O/R mapping sessions have been flushed.
  * Otherwise, the database resources for the temporary BLOBs might stay allocated.
  */

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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
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* /spring-jdbc-6-1-17-sources-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html
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Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is
 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
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For portions of the Tomcat cloud support
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
 - javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd

- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

1.958 pyparsing 3.2.3

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1.959 tzdata 2025b-r0

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1.960 alpine-baselayout 3.7.0-r0

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Automatically generated by apkbuild-cpan, template 1
Contributor: Francesco Colista <francesco.colista@gmail.com>
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pkgname=perl-software-license
_pkgreal=Software-License

```
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "
```

```
_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

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```
2200 Mission College Blvd., Santa Clara, CA
 95052.
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=2
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"

```
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
 cd "$builddir"
 python3 setup.py build || return 1
}

package() {
 cd "$builddir"
 python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-
0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c4993eeb90
  flake8-copyright-0.2.0.tar.gz"
```

mini_sendmail - accept email on behalf of real sendmail

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1.962 pyasn1-modules 0.4.2

1.962.1 Available under license :

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.. _license:

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=======

.. include:: ../../LICENSE.rst

Found in path(s):
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/docs/source/license.rst
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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.python.org/pypi/pyasn1)
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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-
E&type=items).

Features
---

*
 Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
 Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
        'room', Integer().subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(

    'house', Integer(0).subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can

introspect,
modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record =
 decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different

serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from
[PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](http://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

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Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its
designers
and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation

problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
 (integers, bits, strings, arrays and records) that can be used for
 describing
 arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a
 series of octets for storage or transmission over the wire as well as
 recovered back into their structured form. The system is fully agnostic
 to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
 of a schema language for ASN.1 compiler to turn it into platform-specific
 implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely
adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP,
 CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered

security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
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  /example-use-case

Download & Install

.. toctree::
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Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and
 improvements.

.. toctree::
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  /changelog

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by
Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by
Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU
 standards <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_
by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
book on the subject.

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* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/compat/__main__.py
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* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/error.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/base.py
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1.963 jaxb-api 2.3.1

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1.965 jsonpickle 4.0.5

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1.966 tomcat 10.1.36

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- web-app_5_0.xsd

- web-app_6_0.xsd
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- web-commonn_6_0.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd

- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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org.apache.tomcat.util.json.JSONParser.jj is
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- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.968 tomcat-embed-websocket 10.1.36

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1.969 ply 3.11

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1.970 xz 5.8.1-r0

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```
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package main

import (
 "bufio"
 "bytes"
 "flag"
 "fmt"
 "io"
 "log"
 "os"
 "path/filepath"
 "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

 -h  prints this message and exits
`

func crUsage(w io.Writer) {
 fmt.Fprint(w, crUsageString)
}

const copyrightText = `
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`

func goComment(text string) string {
 buf := new(bytes.Buffer)
```

```
 scanner := bufio.NewScanner(strings.NewReader(text))
 var err error
 for scanner.Scan() {
  s := strings.TrimSpace(scanner.Text())
  if len(s) == 0 {
   continue
  }
  if _, err = fmt.Fprintln(buf, "//", s); err != nil {
   panic(err)
  }
 }
 if err
 = scanner.Err(); err != nil {
  panic(err)
 }
 if _, err = fmt.Fprintln(buf); err != nil {
  panic(err)
 }
 return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
 log.Printf("adding copyright to %s", path)
 src, err := os.Open(path)
 if err != nil {
  return err
 }
 defer func() {
  cerr := src.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 newPath := path + ".new"
 dst, err := os.Create(newPath)
 if err != nil {
  return err
 }
 defer func() {
  cerr := dst.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 out := bufio.NewWriter(dst)
 fmt.Fprint(out, goCopyright)
```

```
 scanner := bufio.NewScanner(src)
 line := 0
 del := false
 for scanner.Scan() {
  line++
  txt := scanner.Text()
  if line == 1 && strings.Contains(txt, "Copyright") {
   del = true
   continue
  }
  if del {
   s := strings.TrimSpace(txt)
   if len(s) == 0 {
    del = false
   }
   continue
  }
  fmt.Fprintln(out, txt)
 }
 if err = scanner.Err();
 err != nil {
  return err
 }
 if err = out.Flush(); err != nil {
  return
 }
 err = os.Rename(newPath, path)
 return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
 if err != nil {
  return err
 }
 if info.IsDir() {
  return nil
 }
 if !strings.HasSuffix(info.Name(), ".go") {
  return nil
 }
 return addCopyright(path)
}

func copyright() {
 cmdName := os.Args[0]
 log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
 log.SetFlags(0)
```

```
 flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
 flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

 help := flag.Bool("h", false, "")

 flag.Parse()

 if *help {
  crUsage(os.Stdout)
  os.Exit(0)
 }

 for _, path := range flag.Args() {
  fi, err := os.Stat(path)
  if err != nil {
   log.Print(err)
   continue
  }
  if !fi.IsDir() {
   log.Printf("%s is not a directory", path)
   continue
  }
  if err = filepath.Walk(path, walkCopyrights); err != nil {
   log.Fatalf("%s error %s", path, err)
  }
 }
}
package main

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1.971 c-ares 1.34.5-r0

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1.972 truststore 0.10.1

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1.974 urllib3 2.4.0

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<signature of Ty Coon>, 1 April 1989
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The End

1.976 bcpkix-jdk18on 1.80

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```
/**
 * Base constructor.
 * <p>
```

```
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):
* /bcpkix-jdk18on-1-80-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.977 bcprov-jdk18on 1.80

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```
/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

Found in path(s):
* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java

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```
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*/

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* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/LICENSE.java
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/asn1/x9/DomainParameters.java
No license file was found, but licenses were detected in source scan.

/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*/

Found in path(s):
* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/pqc/math/ntru/package-info.java
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// now keep space is free to use

Found in path(s):

* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java
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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

Found in path(s):
* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
* around this, please see:
*
* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
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* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/crypto/modes/OCBBlockCipher.java
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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see

* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

Found in path(s):
* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
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/**
   * Magic value for proprietary OpenSSH private key.
   **/

Found in path(s):
* /bcprov-jdk18on-1-80-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java

1.978 bcutil-jdk18on 1.80

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1.981 micrometer-registry-prometheus 1.13.11

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* /micrometer-registry-prometheus-1-13-11-sources-jar/io/micrometer/prometheusmetrics/PrometheusDistributionSummary.java
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/micrometer-registry-prometheus-1-13-11-sources-jar/io/micrometer/prometheusmetrics/PrometheusDurationNamingConvention.java
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* /micrometer-registry-prometheus-1-13-11-sources-jar/io/micrometer/prometheusmetrics/PrometheusRenameFilter.java
* /micrometer-registry-prometheus-1-13-11-sources-jar/io/micrometer/prometheusmetrics/PrometheusConfig.java
* /micrometer-registry-prometheus-1-13-11-sources-jar/io/micrometer/prometheusmetrics/package-info.java
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* /jetcd-common-0-8-5-sources-jar/io/etcd/jetcd/common/Service.java
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1.983 micrometer-commons 1.13.11

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1.987 python-certifi 2025.4.26

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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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1.989 google-api-python-client 2.169.0

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1.990 charset-normalizer 3.4.2

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1.991 python-pip 25.1.1

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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 (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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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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jar/org/ops4j/pax/web/service/spi/model/elements/ContainerInitializerModelAware.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/elements/EventListenerKey.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/views/ReportWebContainerView.java
*
 /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/elements/SecurityConfigurationModel.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/events/WebContextEventListener.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/MimeAndLocaleMappingChange.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/info/ServletInfo.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/ContextMetadataModel.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/ContextMetadataModelChange.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/ClearDynamicRegistrationsChange.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/info/WebApplicationInfo.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/PreprocessorFilterConfig.java
*
 /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/TransactionStateChange.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/info/package-info.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/RegisteringContextListener.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/views/WebAppWebContainerView.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/info/WebContextInfo.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiSessionAttributeListener.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/context/WebContainerContextWrapper.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/elements/ServletModel.java
*
 /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/ServerModel.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/ServiceModel.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/ContextStopChange.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/ServletModelChange.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/util/WebContainerListener.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiHttpServletRequestWrapper.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/RegisteringContainerInitializer.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiServletContext.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/events/ServletEventData.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/DefaultJspPropertyGroupDescriptor.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/package-info.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/model/ServletContextModel.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/servlet/SCIWrapper.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/BatchVisitor.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/ServletContextModelChange.java

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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/package-info.java
* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/task/OsgiContextModelChange.java
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* /pax-web-spi-8-0-31-sources-jar/org/ops4j/pax/web/service/spi/util/WebContainerManager.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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
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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
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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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

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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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Eclipse

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* 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

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1.995 pax-web-runtime 8.0.31

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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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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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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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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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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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1.998 jetty-rewrite 9.4.57.v20241219

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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* 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

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org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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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
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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
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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
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1.1000 keycloak-osgi-adapter 8.0.31

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* /keycloak-osgi-adapter-8-0-31-sources-jar/org/keycloak/adapters/osgi/BundleBasedKeycloakConfigResolver.java
* /keycloak-osgi-adapter-8-0-31-sources-

jar/org/keycloak/adapters/osgi/HierarchicalPathBasedKeycloakConfigResolver.java
* /keycloak-osgi-adapter-8-0-31-sources-jar/org/keycloak/adapters/osgi/PathBasedKeycloakConfigResolver.java
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* /keycloak-osgi-adapter-8-0-31-sources-jar/META-INF/maven/org.ops4j.pax.web/keycloak-osgi-adapter/pom.xml

1.1001 pax-web-tomcat-keycloak18 8.0.31

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1.1002 websocket-api 9.4.57.v20241219

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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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

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.eclipse.jetty.toolchain:jetty-schemas

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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* 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

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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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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Eclipse

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* 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

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1.1006 pax-web-undertow-keycloak 8.0.31

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* /pax-web-undertow-keycloak-8-0-31-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-undertow-keycloak/pom.xml
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* /pax-web-undertow-keycloak-8-0-31-sources-jar/META-INF/services/org.ops4j.pax.web.service.AuthenticatorService
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*/

Found in path(s):
* /pax-web-undertow-keycloak-8-0-31-sources-jar/org/ops4j/pax/web/keycloak/undertow/KeycloakAuthenticatorService.java

1.1007 websocket-server 9.4.57.v20241219

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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
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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
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 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

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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1.1008 pax-web-undertow 8.0.31

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* /pax-web-undertow-8-0-31-sources-
jar/org/ops4j/pax/web/service/undertow/internal/PaxWebOuterHandlerWrapper.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/FileSessionPersistence.java
*
 /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/Activator.java
* /pax-web-undertow-8-0-31-sources-
jar/org/ops4j/pax/web/service/undertow/internal/web/FlexibleServletContextImpl.java

* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/UndertowServerController.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/PaxWebServletInfo.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/UndertowFactory.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/UndertowServerControllerFactory.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/OsgiResourceManager.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/FlexibleDeployment.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/PaxWebSecurityHandler.java
*
/pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/UndertowResourceServlet.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/PaxWebFilterInfo.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/FlexibleErrorPages.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/PaxWebPreprocessorsHandler.java
* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/OsgiServletContainerInitializerInfo.java
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* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/PaxWebListenerInfo.java
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// see org.wildfly.extension.undertow.deployment.UndertowDeploymentInfoService#getConfidentialPortManager

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* /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/configuration/model/UndertowConfiguration.java
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 /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/internal/CertificateValidator.java
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 /pax-web-undertow-8-0-31-sources-jar/org/ops4j/pax/web/service/undertow/configuration/model/Interface.java
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1.1009 pax-web-compatibility-annotation13 8.0.31

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Manifest-Version: 1.0
Bnd-LastModified: 1668677801333
Build-Jdk-Spec: 1.8
Bundle-Description: This fragment bundle can be used together with _ca
nonical_ (IMO) jakarta.annotation-api instead of more OSGi aware ger
onimo-annotation_1.3_spec (that declares additional caps/reqs)
Bundle-DocURL: http://www.ops4j.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: OPS4J Pax Web - Annotation 1.3 compatibility
Bundle-SymbolicName: org.ops4j.pax.web.pax-web-compatibility-annotatio
n13
Bundle-Vendor: OPS4J - Open Participation Software for Java

Bundle-Version: 8.0.13
Created-By: Apache Maven Bundle Plugin 5.1.4
Fragment-Host: jakarta.annotation-api
Provide-Capability: osgi.contract;osgi.contract=JavaAnnotation;uses:="
javax.annotation,javax.annotation.sql,javax.annotation.security";vers
ion:List<Version>="1.3,1.2,1.1,1.0"
Tool: Bnd-5.1.1.202006162103

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1.1010 keycloak-common 8.0.31

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1.1011 pax-web-jetty-keycloak18 8.0.31

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1.1012 pax-web-jetty-keycloak 8.0.31

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1.1013 http2-client 9.4.57.v20241219

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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
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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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
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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* /pax-url-war-2-6-16-sources-jar/org/ops4j/pax/url/war/internal/WarConnection.java
* /pax-url-war-2-6-16-sources-jar/org/ops4j/pax/url/war/internal/ConfigurationImpl.java
* /pax-url-war-2-6-16-sources-jar/org/ops4j/pax/url/war/internal/Configuration.java
*
 /pax-url-war-2-6-16-sources-jar/org/ops4j/pax/url/war/ServiceConstants.java
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* /pax-url-war-2-6-16-sources-jar/org/ops4j/pax/url/war/Handler.java
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* /pax-url-war-2-6-16-sources-jar/org/ops4j/pax/url/war/internal/WebBundleConnection.java
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1.1015 pax-web-extender-war 8.0.31

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* /pax-web-extender-war-8-0-31-sources-jar/org/ops4j/pax/web/extender/war/internal/model/AttributeCollectingServletContext.java

1.1016 jetty-alpn-java-client 9.4.57.v20241219

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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* 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

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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 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
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org.eclipse.jetty.toolchain:jetty-schemas

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* /pax-web-websocket-8-0-31-sources-jar/org/ops4j/pax/web/websocket/internal/PaxWebWebSocketsServletContainerInitializer.java

1.1018 pax-web-deployer 8.0.31

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.1020 jetty-jmx 9.4.57.v20241219

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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
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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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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
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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
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 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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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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1.1022 pax-web-extender-whiteboard 8.0.31

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jar/org/ops4j/pax/web/extender/whiteboard/internal/BundleWhiteboardApplication.java

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* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/SecurityConfigurationMappingTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/package-info.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultServletContextHelperMapping.java
*
 /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/AbstractMappingTracker.java

* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/AbstractContextMapping.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/WelcomeFileMappingTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/package-info.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/ServletContextHelperMappingTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/AbstractContextRelated.java
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* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultErrorPageMapping.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultWebSocketMapping.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/ErrorPageMappingTracker.java
*
 /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/WebSocketTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultWelcomeFileMapping.java
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* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultResourceMapping.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultHttpContextMapping.java
*
 /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/internal/util/ServicePropertiesUtils.java
* /pax-web-extender-whiteboard-8-0-31-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultFilterMapping.java
* /pax-web-extender-whiteboard-8-0-31-sources-

jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultJspMapping.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultServletMapping.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/util/WebContainerUtils.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/JspMappingTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/util/DictionaryUtils.java
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* /pax-web-extender-whiteboard-8-0-31-sources-

jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/FilterTracker.java
*
/pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/AbstractContextTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/HttpContextTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/HttpContextMappingTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/ServletMappingTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/legacy/FilterMappingTracker.java
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jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/AbstractElementTracker.java
* /pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/ServletContextHelperTracker.java
*
/pax-web-extender-whiteboard-8-0-31-sources-
jar/org/ops4j/pax/web/extender/whiteboard/internal/tracker/ServletTracker.java

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```

Found in path(s):
* /pax-web-tomcat-keycloak-8-0-31-sources-jar/org/ops4j/pax/web/keycloak/tomcat/KeycloakAuthenticatorService.java
No license file was found, but licenses were detected in source scan.

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1.1024 javax-websocket-client-impl 9.4.57.v20241219

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* 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
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org.ow2.asm:asm-commons
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 org.apache.tomcat:tomcat-jasper
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 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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org.eclipse.jetty.toolchain:jetty-schemas

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1.1026 pax-web-compatibility-servlet31 8.0.31

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-->

Found in path(s):
* /pax-web-compatibility-servlet31-8-0-31-jar/META-INF/maven/org.ops4j.pax.web/pax-web-compatibility-servlet31/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1740401553774
Build-Jdk-Spec: 1.8
Bundle-Description: Pax Web - OPS4J implementation of OSGi HTTP servic
e and OSGi HTTP Whiteboard service
Bundle-DocURL: http://www.ops4j.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: OPS4J Pax Web - Servlet API 3.1 compatibility
Bundle-SymbolicName: org.ops4j.pax.web.pax-web-compatibility-servlet31
Bundle-Vendor: OPS4J - Open Participation Software for Java
Bundle-Version: 8.0.31
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: javax.servlet;version="3.1.0";uses:="javax.servlet.ann
otation,javax.servlet.descriptor",javax.servlet;version="2.6";uses:="
javax.servlet.annotation,javax.servlet.descriptor",javax.servlet.anno
tation;version="3.1.0";uses:="javax.servlet",javax.servlet.annotation
;version="2.6";uses:="javax.servlet",javax.servlet.http;version="3.1.
0";uses:="javax.servlet",javax.servlet.http;version="2.6";uses:="java
 x.servlet",javax.servlet.descriptor;version="3.1.0",javax.servlet.des
criptor;version="2.6"
Fragment-Host: jakarta.servlet-api;bundle-version="[4,5)"
Provide-Capability: osgi.contract;osgi.contract=JavaServlet;uses:="jav
ax.servlet,javax.servlet.http,javax.servlet.descriptor,javax.servlet.
annotation";version:List<Version>="4.0,3.1,3.0,2.6"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /pax-web-compatibility-servlet31-8-0-31-jar/META-INF/MANIFEST.MF

1.1027 jetty-servlets 9.4.57.v20241219

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.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
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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1.1028 pax-web-tomcat-websocket 8.0.31

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* /pax-web-tomcat-common-8-0-31-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-tomcat-common/pom.xml
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* /pax-web-tomcat-common-8-0-31-sources-jar/org/apache/tomcat/util/descriptor/DigesterFactory.java

1.1030 pax-web-undertow-websocket 8.0.31

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* /pax-web-undertow-websocket-8-0-31-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-undertow-websocket/pom.xml

1.1031 jetty-proxy 9.4.57.v20241219

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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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 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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 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.eclipse.jetty.toolchain:jetty-schemas

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1.1033 jetty-openid 9.4.57.v20241219

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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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
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Manifest-Version: 1.0
Bnd-LastModified: 1740401555090
Build-Jdk-Spec: 1.8
Bundle-Description: This fragment bundle can be used together with _ca
nonical_ (IMO) jakarta.el-api instead of more OSGi aware geronimo-el
_2.2_spec (that declares additional caps/reqs)
Bundle-DocURL: http://www.ops4j.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html

Bundle-ManifestVersion: 2
Bundle-Name: OPS4J Pax Web - EL 2.2 compatibility
Bundle-SymbolicName: org.ops4j.pax.web.pax-web-compatibility-el2
Bundle-Vendor: OPS4J - Open Participation Software for Java
Bundle-Version: 8.0.31
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: javax.el;version="2.2"
Fragment-Host: javax.el-api
Provide-Capability: osgi.contract;osgi.contract=JavaEL;uses:="javax.el
";version:List<Version>="3.0,2.2,2.1,2.0,1.0"
Tool: Bnd-6.3.1.202206071316

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* /pax-web-compatibility-el2-8-0-31-jar/META-INF/MANIFEST.MF
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1.1035 jetty-alpn-openjdk8-client 9.4.57.v20241219

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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* 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

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.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

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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* /pax-web-karaf-8-0-31-sources-jar/org/ops4j/pax/web/karaf/commands/MetaCommand.java
* /pax-web-karaf-8-0-31-sources-jar/org/ops4j/pax/web/karaf/commands/WebCommand.java
* /pax-web-karaf-8-0-31-sources-jar/org/ops4j/pax/web/karaf/commands/ServletListCommand.java
*
 /pax-web-karaf-8-0-31-sources-jar/org/ops4j/pax/web/karaf/commands/WabListCommand.java
* /pax-web-karaf-8-0-31-sources-jar/org/ops4j/pax/web/karaf/commands/WabInfoCommand.java

1.1037 javax-websocket-server-impl 9.4.57.v20241219

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* 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
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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
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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

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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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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* 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
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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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

If ALPN is used to negotiate HTTP/2 connections, then the following
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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
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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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

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following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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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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1.1041 tomcat 8.0.31

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd

- javaee_web_services_1_3.xsd
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Descriptors:
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- javaee_web_services_1_2.xsd

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

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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1.1043 pax-web-api 8.0.31

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1.1045 python-setuptools 80.4.0

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The code contained in this directory was automatically generated using the
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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t distutils=setuptools/config/distutils.schema.json

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
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- https://github.com/abravalheri/validate-pyproject/issues

***

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
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1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.1046 skalibs 2.14.4.0-r0

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pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')

```
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
```

```
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
```

```
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
```

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"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
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Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"

```
/* $NetBSD: queue.h,v 1.70 2015/11/02 15:21:23 christos Exp $ */

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* SUCH DAMAGE.
*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
*/

#ifndef _SYS_QUEUE_H_
#define _SYS_QUEUE_H_

/*
* This file defines five types of data structures: singly-linked lists,
* lists, simple queues, tail queues, and circular queues.
*
* A singly-linked list is headed by a single forward pointer. The
* elements are singly linked for minimum space and
 pointer manipulation
* overhead at the expense of O(n) removal for arbitrary elements. New
* elements can be added to the list after an existing element or at the
* head of the list.  Elements being removed from the head of the list
* should use the explicit macro for this purpose for optimum
```

```
* efficiency. A singly-linked list may only be traversed in the forward
* direction.  Singly-linked lists are ideal for applications with large
* datasets and few or no removals or for implementing a LIFO queue.
*
* A list is headed by a single forward pointer (or an array of forward
* pointers for a hash table header). The elements are doubly linked
* so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before
* or after an existing element or at the head of the list. A list
* may only be traversed in the forward direction.
*
* A simple queue is headed by a pair of pointers, one the head of the
* list and the
 other to the tail of the list. The elements are singly
* linked to save space, so elements can only be removed from the
* head of the list. New elements can be added to the list after
* an existing element, at the head of the list, or at the end of the
* list. A simple queue may only be traversed in the forward direction.
*
* A tail queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before or
* after an existing element, at the head of the list, or at the end of
* the list. A tail queue may be traversed in either direction.
*
* A circle queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements
 can be added to the list before or after
* an existing element, at the head of the list, or at the end of the list.
* A circle queue may be traversed in either direction, but has a more
* complex end of list detection.
*
* For details on the use of these macros, see the queue(3) manual page.
*/

/*
* Include the definition of NULL only on NetBSD because sys/null.h
* is not available elsewhere.  This conditional makes the header
* portable and it can simply be dropped verbatim into any system.
* The caveat is that on other systems some other header
* must provide NULL before the macros can be used.
*/
#ifdef __NetBSD__
#include <sys/null.h>
#endif
```

```
#if defined(QUEUEDEBUG)
# if defined(_KERNEL)
#  define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
#  include <err.h>
#  define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
* Singly-linked List definitions.
*/
#define SLIST_HEAD(name, type)      \
struct name {       \
 struct type *slh_first; /* first
 element */   \
}

#define SLIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define SLIST_ENTRY(type)      \
struct {       \
 struct type *sle_next; /* next element */   \
}

/*
* Singly-linked List access methods.
*/
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head)  NULL
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field)     \
 for((var) = (head)->slh_first;     \
    (var) != SLIST_END(head);     \
    (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = SLIST_FIRST((head));    \
    (var) != SLIST_END(head) &&     \
    ((tvar) = SLIST_NEXT((var), field), 1);   \
    (var) = (tvar))

/*
* Singly-linked List functions.
```

```
*/
#define SLIST_INIT(head) do {      \
 (head)->slh_first = SLIST_END(head);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do {   \
 (elm)->field.sle_next = (slistelm)->field.sle_next;  \
 (slistelm)->field.sle_next
 = (elm);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do {   \
 (elm)->field.sle_next = (head)->slh_first;   \
 (head)->slh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do {   \
 (slistelm)->field.sle_next =     \
    SLIST_NEXT(SLIST_NEXT((slistelm), field), field);  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do {    \
 (head)->slh_first = (head)->slh_first->field.sle_next;  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE(head, elm, type, field) do {   \
 if ((head)->slh_first == (elm)) {    \
  SLIST_REMOVE_HEAD((head), field);   \
 }       \
 else {       \
  struct type *curelm = (head)->slh_first;  \
  while(curelm->field.sle_next != (elm))   \
   curelm = curelm->field.sle_next;  \
  curelm->field.sle_next =    \
     curelm->field.sle_next->field.sle_next;  \
 }       \
} while (/*CONSTCOND*/0)


/*
* List definitions.
 */
#define LIST_HEAD(name, type)      \
struct name {       \
 struct type *lh_first; /* first element */   \
}

#define LIST_HEAD_INITIALIZER(head)     \
```

```
 { NULL }

#define LIST_ENTRY(type)      \
struct {        \
 struct type *le_next; /* next element */   \
 struct type **le_prev; /* address of previous next element */ \
}

/*
* List access methods.
*/
#define LIST_FIRST(head)  ((head)->lh_first)
#define LIST_END(head)   NULL
#define LIST_EMPTY(head)  ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field)  ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field)     \
 for ((var) = ((head)->lh_first);    \
     (var) != LIST_END(head);     \
     (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = LIST_FIRST((head));    \
     (var) != LIST_END(head) &&     \
     ((tvar) = LIST_NEXT((var), field), 1);   \
     (var) = (tvar))

#define LIST_MOVE(head1, head2) do {     \
 LIST_INIT((head2));      \
 if (!LIST_EMPTY((head1)))
 {     \
  (head2)->lh_first = (head1)->lh_first;   \
  LIST_INIT((head1));     \
 }        \
} while (/*CONSTCOND*/0)

/*
* List functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)   \
 if ((head)->lh_first &&      \
     (head)->lh_first->field.le_prev != &(head)->lh_first) \
  QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field)     \
 if ((elm)->field.le_next &&     \
     (elm)->field.le_next->field.le_prev !=   \
```

```
    &(elm)->field.le_next)     \
  QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm),  \
      __FILE__, __LINE__);    \
 if (*(elm)->field.le_prev != (elm))    \
  QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm),  \
      __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)    \
 (elm)->field.le_next = (void *)1L;    \
 (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm,
 field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do {      \
 (head)->lh_first = LIST_END(head);    \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 if (((elm)->field.le_next = (listelm)->field.le_next) !=  \
     LIST_END(head))      \
  (listelm)->field.le_next->field.le_prev =  \
      &(elm)->field.le_next;    \
 (listelm)->field.le_next = (elm);    \
 (elm)->field.le_prev = &(listelm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 (elm)->field.le_prev = (listelm)->field.le_prev;  \
 (elm)->field.le_next = (listelm);    \
 *(listelm)->field.le_prev = (elm);    \
 (listelm)->field.le_prev = &(elm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do {    \
 QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.le_next
 = (head)->lh_first) != LIST_END(head))\
  (head)->lh_first->field.le_prev = &(elm)->field.le_next;\
 (head)->lh_first = (elm);     \
 (elm)->field.le_prev = &(head)->lh_first;   \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do {     \
```

```
 QUEUEDEBUG_LIST_OP((elm), field)    \
 if ((elm)->field.le_next != NULL)    \
  (elm)->field.le_next->field.le_prev =    \
      (elm)->field.le_prev;    \
 *(elm)->field.le_prev = (elm)->field.le_next;   \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do {    \
 if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
  (elm2)->field.le_next->field.le_prev =   \
      &(elm2)->field.le_next;    \
 (elm2)->field.le_prev = (elm)->field.le_prev;   \
 *(elm2)->field.le_prev = (elm2);    \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

/*
* Simple queue definitions.
*/
#define SIMPLEQ_HEAD(name, type)     \
struct name {        \
 struct
 type *sqh_first; /* first element */   \
 struct type **sqh_last; /* addr of last next element */  \
}

#define SIMPLEQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type)      \
struct {        \
 struct type *sqe_next; /* next element */   \
}

/*
* Simple queue access methods.
*/
#define SIMPLEQ_FIRST(head)  ((head)->sqh_first)
#define SIMPLEQ_END(head)  NULL
#define SIMPLEQ_EMPTY(head)  ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)

#define SIMPLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head);     \
     (var) = ((var)->field.sqe_next))
```

```
#define SIMPLEQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head) &&    \
     ((next = ((var)->field.sqe_next)), 1);   \
     (var) = (next))

/*
* Simple queue functions.
*/
#define SIMPLEQ_INIT(head) do {      \
 (head)->sqh_first = NULL;     \
 (head)->sqh_last
 = &(head)->sqh_first;    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (head)->sqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.sqe_next = NULL;     \
 *(head)->sqh_last = (elm);     \
 (head)->sqh_last = &(elm)->field.sqe_next;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL)\
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (listelm)->field.sqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
  (head)->sqh_last = &(head)->sqh_first;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do {   \
 if
 (((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
    == NULL)       \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->sqh_first == (elm)) {    \
  SIMPLEQ_REMOVE_HEAD((head), field);   \
```

```
 } else {      \
  struct type *curelm = (head)->sqh_first;  \
  while (curelm->field.sqe_next != (elm))   \
   curelm = curelm->field.sqe_next;  \
  if ((curelm->field.sqe_next =    \
   curelm->field.sqe_next->field.sqe_next) == NULL) \
      (head)->sqh_last = &(curelm)->field.sqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do {    \
 if (!SIMPLEQ_EMPTY((head2))) {     \
  *(head1)->sqh_last = (head2)->sqh_first;  \
  (head1)->sqh_last = (head2)->sqh_last;  \
  SIMPLEQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field)     \
 (SIMPLEQ_EMPTY((head)) ?      \
  NULL :       \
       ((struct type
 *)(void *)    \
  ((char *)((head)->sqh_last) - offsetof(struct type, field))))

/*
* Tail queue definitions.
*/
#define _TAILQ_HEAD(name, type, qual)     \
struct name {       \
 qual type *tqh_first;  /* first element */  \
 qual type *qual *tqh_last; /* addr of last next element */ \
}
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head)     \
 { TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual)     \
struct {       \
 qual type *tqe_next;  /* next element */  \
 qual type *qual *tqe_prev; /* address of previous next element */\
}
#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
* Tail queue access methods.
*/
```

```
#define TAILQ_FIRST(head)  ((head)->tqh_first)
#define TAILQ_END(head)   (NULL)
#define TAILQ_NEXT(elm, field)  ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
 (*(((struct headname *)(void *)((head)->tqh_last))->tqh_last))
#define TAILQ_PREV(elm, headname, field) \
 (*(((struct headname
 *)(void *)((elm)->field.tqe_prev))->tqh_last))
#define TAILQ_EMPTY(head)  (TAILQ_FIRST(head) == TAILQ_END(head))


#define TAILQ_FOREACH(var, head, field)     \
 for ((var) = ((head)->tqh_first);    \
     (var) != TAILQ_END(head);     \
     (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->tqh_first);    \
     (var) != TAILQ_END(head) &&     \
     ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field)  \
 for ((var) = TAILQ_LAST((head), headname);   \
     (var) != TAILQ_END(head);     \
     (var) = TAILQ_PREV((var), headname, field))

#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
 for ((var) = TAILQ_LAST((head), headname);   \
     (var) != TAILQ_END(head) &&     \
     ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
* Tail queue functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head,
 elm, field)   \
 if ((head)->tqh_first &&     \
     (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)   \
 if (*(head)->tqh_last != NULL)     \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_OP(elm, field)     \
 if ((elm)->field.tqe_next &&     \
     (elm)->field.tqe_next->field.tqe_prev !=   \
```

```
    &(elm)->field.tqe_next)     \
  QUEUEDEBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
      __FILE__, __LINE__);    \
 if (*(elm)->field.tqe_prev != (elm))    \
  QUEUEDEBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)   \
 if ((elm)->field.tqe_next == NULL &&    \
     (head)->tqh_last != &(elm)->field.tqe_next)   \
  QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d",\
      (head), (elm), __FILE__,
 __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)    \
 (elm)->field.tqe_next = (void *)1L;    \
 (elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do {      \
 (head)->tqh_first = TAILQ_END(head);    \
 (head)->tqh_last = &(head)->tqh_first;    \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head))\
  (head)->tqh_first->field.tqe_prev =   \
     &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (head)->tqh_first = (elm);     \
 (elm)->field.tqe_prev = &(head)->tqh_first;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head,
 elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field)  \
 (elm)->field.tqe_next = TAILQ_END(head);   \
 (elm)->field.tqe_prev = (head)->tqh_last;   \
 *(head)->tqh_last = (elm);     \
 (head)->tqh_last = &(elm)->field.tqe_next;   \
} while (/*CONSTCOND*/0)
```

```
#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 if (((elm)->field.tqe_next = (listelm)->field.tqe_next) !=  \
     TAILQ_END(head))      \
  (elm)->field.tqe_next->field.tqe_prev =   \
      &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (listelm)->field.tqe_next = (elm);    \
 (elm)->field.tqe_prev = &(listelm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 (elm)->field.tqe_prev = (listelm)->field.tqe_prev;  \
 (elm)->field.tqe_next = (listelm);    \
 *(listelm)->field.tqe_prev = (elm);    \
 (listelm)->field.tqe_prev
 = &(elm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_TAILQ_PREREMOVE((head), (elm), field)  \
 QUEUEDEBUG_TAILQ_OP((elm), field)    \
 if (((elm)->field.tqe_next) != TAILQ_END(head))   \
  (elm)->field.tqe_next->field.tqe_prev =   \
     (elm)->field.tqe_prev;    \
 else       \
  (head)->tqh_last = (elm)->field.tqe_prev;  \
 *(elm)->field.tqe_prev = (elm)->field.tqe_next;   \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm), field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_REPLACE(head, elm, elm2, field) do {   \
      if (((elm2)->field.tqe_next = (elm)->field.tqe_next) !=  \
    TAILQ_END(head))        \
            (elm2)->field.tqe_next->field.tqe_prev =  \
               &(elm2)->field.tqe_next;    \
      else       \
            (head)->tqh_last = &(elm2)->field.tqe_next;  \
      (elm2)->field.tqe_prev = (elm)->field.tqe_prev;   \
      *(elm2)->field.tqe_prev = (elm2);    \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm),
 field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do {    \
 if (!TAILQ_EMPTY(head2)) {     \
```

```
 *(head1)->tqh_last = (head2)->tqh_first;  \
 (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
 (head1)->tqh_last = (head2)->tqh_last;   \
 TAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* Singly-linked Tail queue declarations.
*/
#define STAILQ_HEAD(name, type)      \
struct name {       \
 struct type *stqh_first; /* first element */  \
 struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type)      \
struct {       \
 struct type *stqe_next; /* next element */   \
}

/*
* Singly-linked Tail queue access methods.
*/
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head)
 == STAILQ_END(head))

/*
* Singly-linked Tail queue functions.
*/
#define STAILQ_INIT(head) do {      \
 (head)->stqh_first = NULL;     \
 (head)->stqh_last = &(head)->stqh_first;    \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do {    \
 if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (head)->stqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do {   \
```

```
 (elm)->field.stqe_next = NULL;     \
 *(head)->stqh_last = (elm);     \
 (head)->stqh_last = &(elm)->field.stqe_next;   \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL)\
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (listelm)->field.stqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->stqh_first = (head)->stqh_first->field.stqe_next)
 == NULL) \
  (head)->stqh_last = &(head)->stqh_first;   \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->stqh_first == (elm)) {    \
  STAILQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->stqh_first;  \
  while (curelm->field.stqe_next != (elm))   \
   curelm = curelm->field.stqe_next;  \
  if ((curelm->field.stqe_next =    \
   curelm->field.stqe_next->field.stqe_next) == NULL) \
      (head)->stqh_last = &(curelm)->field.stqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->stqh_first);    \
  (var);       \
  (var) = ((var)->field.stqe_next))

#define STAILQ_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = STAILQ_FIRST((head));    \
    (var) && ((tvar) = STAILQ_NEXT((var), field), 1);  \
    (var) = (tvar))

#define STAILQ_CONCAT(head1, head2) do {    \
 if (!STAILQ_EMPTY((head2))) {     \
  *(head1)->stqh_last
 = (head2)->stqh_first;  \
  (head1)->stqh_last = (head2)->stqh_last;  \
  STAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)
```

```
#define STAILQ_LAST(head, type, field)     \
 (STAILQ_EMPTY((head)) ?      \
  NULL :      \
        ((struct type *)(void *)    \
  ((char *)((head)->stqh_last) - offsetof(struct type, field))))


#ifndef _KERNEL
/*
* Circular queue definitions. Do not use. We still keep the macros
* for compatibility but because of pointer aliasing issues their use
* is discouraged!
*/

/*
* __launder_type():  We use this ugly hack to work around the the compiler
* noticing that two types may not alias each other and elide tests in code.
* We hit this in the CIRCLEQ macros when comparing 'struct name *' and
* 'struct type *' (see CIRCLEQ_HEAD()).  Modern compilers (such as GCC
* 4.8) declare these comparisons as always false, causing the code to
* not run as designed.
*
* This hack is only to be used for comparisons and thus can be fully const.
 * Do not use for assignment.
*
* If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
* this by changing the head/tail sentinal values, but see the note above
* this one.
*/
static __inline const void * __launder_type(const void *);
static __inline const void *
__launder_type(const void *__x)
{
 __asm __volatile("" : "+r" (__x));
 return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)    \
 if ((head)->cqh_first != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \
        __FILE__, __LINE__);    \
 if ((head)->cqh_last != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
        __FILE__, __LINE__);
```

```
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_last != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ
 elm last %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 } else {       \
  if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 }        \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_first != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 } else {       \
  if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 }
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)   \
 (elm)->field.cqe_next = (void *)1L;    \
 (elm)->field.cqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type)     \
struct name {        \
 struct type *cqh_first;  /*
 first element */  \
 struct type *cqh_last;  /* last element */  \
}

#define CIRCLEQ_HEAD_INITIALIZER(head)     \
 { CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type)      \
struct {        \
 struct type *cqe_next;  /* next element */  \
 struct type *cqe_prev;  /* previous element */  \
}

/*
* Circular queue functions.
*/
```

```
#define CIRCLEQ_INIT(head) do {      \
 (head)->cqh_first = CIRCLEQ_END(head);    \
 (head)->cqh_last = CIRCLEQ_END(head);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm)->field.cqe_next;  \
 (elm)->field.cqe_prev = (listelm);    \
 if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm);    \
 else       \
  (listelm)->field.cqe_next->field.cqe_prev = (elm); \
 (listelm)->field.cqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_BEFORE(head,
 listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm);    \
 (elm)->field.cqe_prev = (listelm)->field.cqe_prev;  \
 if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm);    \
 else       \
  (listelm)->field.cqe_prev->field.cqe_next = (elm); \
 (listelm)->field.cqe_prev = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next = (head)->cqh_first;   \
 (elm)->field.cqe_prev = CIRCLEQ_END(head);   \
 if ((head)->cqh_last == CIRCLEQ_ENDC(head))   \
  (head)->cqh_last = (elm);    \
 else       \
  (head)->cqh_first->field.cqe_prev = (elm);  \
 (head)->cqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next
 = CIRCLEQ_END(head);   \
 (elm)->field.cqe_prev = (head)->cqh_last;   \
 if ((head)->cqh_first == CIRCLEQ_ENDC(head))   \
  (head)->cqh_first = (elm);    \
```

```
 else       \
  (head)->cqh_last->field.cqe_next = (elm);  \
 (head)->cqh_last = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (elm), field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm)->field.cqe_prev;  \
 else       \
  (elm)->field.cqe_next->field.cqe_prev =   \
      (elm)->field.cqe_prev;    \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm)->field.cqe_next;  \
 else       \
  (elm)->field.cqe_prev->field.cqe_next =   \
      (elm)->field.cqe_next;    \
 QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->cqh_first);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var)
 = ((var)->field.cqe_next))

#define CIRCLEQ_FOREACH_REVERSE(var, head, field)   \
 for ((var) = ((head)->cqh_last);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var) = ((var)->field.cqe_prev))

/*
* Circular queue access methods.
*/
#define CIRCLEQ_FIRST(head)  ((head)->cqh_first)
#define CIRCLEQ_LAST(head)  ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head)  (__launder_type(head))
/* For assignments */
#define CIRCLEQ_END(head)  ((void *)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)
#define CIRCLEQ_EMPTY(head)      \
   (CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

#define CIRCLEQ_LOOP_NEXT(head, elm, field)    \
 (((elm)->field.cqe_next == CIRCLEQ_ENDC(head))   \
```

```
    ? ((head)->cqh_first)     \
    : (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field)    \
 (((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))   \
    ? ((head)->cqh_last)     \
    :
 (elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
#ifndef _SYS_CDEFS_H_
#define _SYS_CDEFS_H_

#warning usage of non-standard #include <sys/cdefs.h> is deprecated

#undef __P
#undef __PMT

#define __P(args) args
#define __PMT(args) args

#define __CONCAT(x,y) x ## y
#define __STRING(x) #x

#ifdef  __cplusplus
# define __BEGIN_DECLS extern "C" {
# define __END_DECLS }
#else
# define __BEGIN_DECLS
# define __END_DECLS
#endif

#if defined(__GNUC__) && !defined(__cplusplus)
# define __THROW __attribute__ ((__nothrow__))
# define __NTH(fct) __attribute__ ((__nothrow__)) fct
#else
# define __THROW
# define __NTH(fct)     fct
#endif

#endif /* _SYS_CDEFS_H_ */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
```

```
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
```

```
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/* Modified by Void Linux. */
/*
* Copyright 2002 Niels Provos <provos@citi.umich.edu>
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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
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y)      \
```

```
 ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) ||   \
  (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
#endif

/*
* This file defines data structures for different types of trees:
* splay trees and red-black trees.
*
* A splay tree is a self-organizing
 data structure.  Every operation
* on the tree causes a splay to happen.  The splay moves the requested
* node to the root of the tree and partly rebalances it.
*
* This has the benefit that request locality causes faster lookups as
* the requested nodes move to the top of the tree.  On the other hand,
* every lookup causes memory writes.
*
* The Balance Theorem bounds the total access time for m operations
* and n inserts on an initially empty tree as O((m + n)lg n).  The
* amortized cost for a sequence of m accesses to a splay tree is O(lg n);
*
* A red-black tree is a binary search tree with the node color as an
* extra attribute.  It fulfills a set of conditions:
* - every search path from the root to a leaf consists of the
*   same number of black nodes,
* - each red node (except for the root) has a black parent,
* - each leaf node is black.
*
* Every operation on a red-black tree is bounded as O(lg n).
* The maximum height of a red-black tree is 2lg (n+1).
 */

#define SPLAY_HEAD(name, type)      \
struct name {       \
 struct type *sph_root; /* root of the tree */   \
}

#define SPLAY_INITIALIZER(root)     \
 { NULL }
```

```
#define SPLAY_INIT(root) do {      \
 (root)->sph_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type)      \
struct {        \
 struct type *spe_left; /* left element */   \
 struct type *spe_right; /* right element */   \
}

#define SPLAY_LEFT(elm, field)  (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field)  (elm)->field.spe_right
#define SPLAY_ROOT(head)  (head)->sph_root
#define SPLAY_EMPTY(head)  (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do {   \
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do {   \
 SPLAY_RIGHT((head)->sph_root,
 field) = SPLAY_LEFT(tmp, field); \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do {    \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);  \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do {    \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do {  \
 SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
 SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field);\
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
 SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)
```

```
/* Generates prototypes and inline functions */

#define
 SPLAY_PROTOTYPE(name, type, field, cmp)    \
void name##_SPLAY(struct name *, struct type *);   \
void name##_SPLAY_MINMAX(struct name *, int);    \
struct type *name##_SPLAY_INSERT(struct name *, struct type *);  \
struct type *name##_SPLAY_REMOVE(struct name *, struct type *);  \
        \
/* Finds the node with the same key as elm */    \
static __inline struct type *      \
name##_SPLAY_FIND(struct name *head, struct type *elm)   \
{        \
 if (SPLAY_EMPTY(head))      \
  return(NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0)    \
  return (head->sph_root);    \
 return (NULL);       \
}        \
        \
static __inline _sys_tree_h_unused struct type *   \
name##_SPLAY_NEXT(struct name *head, struct type *elm)   \
{        \
 name##_SPLAY(head, elm);     \
 if (SPLAY_RIGHT(elm, field) != NULL) {    \
  elm = SPLAY_RIGHT(elm, field);    \
  while (SPLAY_LEFT(elm, field) != NULL) {  \
   elm = SPLAY_LEFT(elm, field);   \
  }       \
 }
 else        \
  elm = NULL;      \
 return (elm);       \
}        \
        \
static _sys_tree_h_unused __inline struct type *   \
name##_SPLAY_MIN_MAX(struct name *head, int val)   \
{        \
 name##_SPLAY_MINMAX(head, val);     \
      return (SPLAY_ROOT(head));     \
}

/* Main splay operation.
* Moves node close to the key of elm to top
*/
#define SPLAY_GENERATE(name, type, field, cmp)    \
struct type *        \
```

```
name##_SPLAY_INSERT(struct name *head, struct type *elm)  \
{       \
  if (SPLAY_EMPTY(head)) {      \
    SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
  } else {      \
    int __comp;       \
    name##_SPLAY(head, elm);     \
    __comp = (cmp)(elm, (head)->sph_root);   \
    if(__comp < 0) {      \
     SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
     SPLAY_RIGHT(elm, field) = (head)->sph_root;  \
     SPLAY_LEFT((head)->sph_root, field) = NULL;  \
    } else if (__comp > 0) {     \
     SPLAY_RIGHT(elm,
 field) = SPLAY_RIGHT((head)->sph_root, field);\
     SPLAY_LEFT(elm, field) = (head)->sph_root;  \
     SPLAY_RIGHT((head)->sph_root, field) = NULL; \
    } else       \
     return ((head)->sph_root);    \
  }       \
  (head)->sph_root = (elm);      \
  return (NULL);       \
}       \
       \
struct type *       \
name##_SPLAY_REMOVE(struct name *head, struct type *elm)  \
{       \
 struct type *__tmp;      \
 if (SPLAY_EMPTY(head))      \
  return (NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0) {   \
  if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
   (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
  } else {      \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
   name##_SPLAY(head, elm);   \
   SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
  }       \
  return (elm);      \
 }       \
 return (NULL);       \
}       \
       \
void        \
name##_SPLAY(struct
```

```
 name *head, struct type *elm)   \
{       \
 struct type __node, *__left, *__right, *__tmp;   \
 int __comp;      \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) {  \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) < 0){   \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) > 0){   \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
 }       \
 SPLAY_ASSEMBLE(head,
 &__node, __left, __right, field);  \
}       \
       \
/* Splay with either the minimum or the maximum element   \
* Used to find minimum or maximum element in tree.   \
*/        \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{       \
 struct type __node, *__left, *__right, *__tmp;   \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while (1) {       \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
```

```
  if (__tmp == NULL)    \
   break;     \
  if (__comp < 0){    \
   SPLAY_ROTATE_RIGHT(head, __tmp, field); \
   if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
    break;    \
  }      \
  SPLAY_LINKLEFT(head, __right, field);  \
 } else if (__comp > 0) {    \
  __tmp = SPLAY_RIGHT((head)->sph_root, field); \
  if (__tmp == NULL)    \
   break;     \
  if (__comp > 0) {    \
   SPLAY_ROTATE_LEFT(head, __tmp, field); \
   if (SPLAY_RIGHT((head)->sph_root,
 field) == NULL)\
    break;    \
  }      \
  SPLAY_LINKRIGHT(head, __left, field);  \
 }       \
}       \
 SPLAY_ASSEMBLE(head, &__node, __left, __right, field);  \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y)  name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y)  name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head)     \
 for ((x) = SPLAY_MIN(name, head);    \
     (x) != NULL;      \
     (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type)      \
struct name {        \
 struct type *rbh_root; /* root of the tree */   \
}

#define RB_INITIALIZER(root)      \
```

```
 {
 NULL }

#define RB_INIT(root) do {      \
 (root)->rbh_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED  1
#define RB_ENTRY(type)       \
struct {        \
 struct type *rbe_left;  /* left element */  \
 struct type *rbe_right;  /* right element */  \
 struct type *rbe_parent; /* parent element */  \
 int rbe_color;   /* node color */  \
}

#define RB_LEFT(elm, field)  (elm)->field.rbe_left
#define RB_RIGHT(elm, field)  (elm)->field.rbe_right
#define RB_PARENT(elm, field)  (elm)->field.rbe_parent
#define RB_COLOR(elm, field)  (elm)->field.rbe_color
#define RB_ROOT(head)   (head)->rbh_root
#define RB_EMPTY(head)   (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do {     \
 RB_PARENT(elm, field) = parent;     \
 RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL;  \
 RB_COLOR(elm, field) = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do {    \
 RB_COLOR(black, field) = RB_BLACK;    \
 RB_COLOR(red, field)
 = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do {   \
 (tmp) = RB_RIGHT(elm, field);     \
 if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
  RB_PARENT(RB_LEFT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
```

```
  RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
 else      \
  RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
 (head)->rbh_root = (tmp);    \
 RB_LEFT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do {   \
 (tmp) = RB_LEFT(elm, field);     \
 if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field))
 != NULL) { \
  RB_PARENT(RB_RIGHT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else      \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
 (head)->rbh_root = (tmp);    \
 RB_RIGHT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp)    \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp)   \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr)  \
attr void name##_RB_INSERT_COLOR(struct name *, struct
 type *);  \
attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *);\
attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
attr struct type *name##_RB_INSERT(struct name *, struct type *); \
attr struct type *name##_RB_FIND(struct name *, struct type *);  \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *);   \
attr struct type *name##_RB_PREV(struct type *);   \
```

```
attr struct type *name##_RB_MINMAX(struct name *, int);   \
        \

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp)    \
 RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp)   \
 RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr)  \
attr void        \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm)  \
{        \
 struct type
 *parent, *gparent, *tmp;    \
 while ((parent = RB_PARENT(elm, field)) != NULL &&  \
     RB_COLOR(parent, field) == RB_RED) {   \
  gparent = RB_PARENT(parent, field);   \
  if (parent == RB_LEFT(gparent, field)) {  \
   tmp = RB_RIGHT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_RIGHT(parent, field) == elm) {  \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_RIGHT(head, gparent, tmp, field); \
  } else {      \
   tmp = RB_LEFT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_LEFT(parent, field) == elm)
  {  \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
```

```
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_LEFT(head, gparent, tmp, field); \
  }       \
 }        \
 RB_COLOR(head->rbh_root, field) = RB_BLACK;   \
}         \
        \
attr void        \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{         \
 struct type *tmp;      \
 while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
     elm != RB_ROOT(head)) {     \
  if (RB_LEFT(parent, field) == elm) {   \
   tmp = RB_RIGHT(parent, field);   \
   if (RB_COLOR(tmp, field) == RB_RED) {  \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = RB_RIGHT(parent, field);  \
   }      \
   if ((RB_LEFT(tmp, field) == NULL ||  \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
       (RB_RIGHT(tmp, field) == NULL ||  \
       RB_COLOR(RB_RIGHT(tmp,
 field), field) == RB_BLACK)) {\
    RB_COLOR(tmp, field) = RB_RED;  \
    elm = parent;    \
    parent = RB_PARENT(elm, field);  \
   } else {     \
    if (RB_RIGHT(tmp, field) == NULL || \
        RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
     struct type *oleft;  \
     if ((oleft = RB_LEFT(tmp, field)) \
         != NULL)   \
      RB_COLOR(oleft, field) = RB_BLACK;\
     RB_COLOR(tmp, field) = RB_RED; \
     RB_ROTATE_RIGHT(head, tmp, oleft, field);\
     tmp = RB_RIGHT(parent, field); \
    }     \
    RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
    RB_COLOR(parent, field) = RB_BLACK; \
    if (RB_RIGHT(tmp, field))  \
     RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    elm = RB_ROOT(head);   \
    break;     \
```

```
  }     \
 } else {     \
  tmp = RB_LEFT(parent, field);   \
  if (RB_COLOR(tmp, field) == RB_RED) {  \
   RB_SET_BLACKRED(tmp, parent, field); \
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   tmp
= RB_LEFT(parent, field);  \
  }     \
  if ((RB_LEFT(tmp, field) == NULL ||  \
      RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
      (RB_RIGHT(tmp, field) == NULL ||  \
      RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
   RB_COLOR(tmp, field) = RB_RED;  \
   elm = parent;    \
   parent = RB_PARENT(elm, field);  \
  } else {     \
   if (RB_LEFT(tmp, field) == NULL || \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
    struct type *oright;  \
    if ((oright = RB_RIGHT(tmp, field)) \
        != NULL)   \
     RB_COLOR(oright, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_LEFT(head, tmp, oright, field);\
    tmp = RB_LEFT(parent, field); \
   }     \
   RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
   RB_COLOR(parent, field) = RB_BLACK; \
   if (RB_LEFT(tmp, field))  \
    RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   elm = RB_ROOT(head);   \
   break;     \
  }     \
 }      \
}       \
if
(elm)      \
 RB_COLOR(elm, field) = RB_BLACK;   \
}       \
       \
attr struct type *      \
name##_RB_REMOVE(struct name *head, struct type *elm)   \
{       \
 struct type *child, *parent, *old = elm;   \
 int color;      \
 if (RB_LEFT(elm, field) == NULL)    \
```

```
 child = RB_RIGHT(elm, field);    \
else if (RB_RIGHT(elm, field) == NULL)    \
 child = RB_LEFT(elm, field);    \
else {        \
 struct type *left;     \
 elm = RB_RIGHT(elm, field);    \
 while ((left = RB_LEFT(elm, field)) != NULL)  \
  elm = left;     \
 child = RB_RIGHT(elm, field);    \
 parent = RB_PARENT(elm, field);    \
 color = RB_COLOR(elm, field);    \
 if (child)      \
  RB_PARENT(child, field) = parent;  \
 if (parent) {      \
  if (RB_LEFT(parent, field) == elm)  \
   RB_LEFT(parent, field) = child;  \
  else      \
   RB_RIGHT(parent, field) = child; \
  RB_AUGMENT(parent);    \
 } else       \
  RB_ROOT(head)
= child;    \
 if (RB_PARENT(elm, field) == old)   \
  parent = elm;     \
 (elm)->field = (old)->field;    \
 if (RB_PARENT(old, field)) {    \
  if (RB_LEFT(RB_PARENT(old, field), field) == old)\
   RB_LEFT(RB_PARENT(old, field), field) = elm;\
  else      \
   RB_RIGHT(RB_PARENT(old, field), field) = elm;\
  RB_AUGMENT(RB_PARENT(old, field));  \
 } else       \
  RB_ROOT(head) = elm;    \
 RB_PARENT(RB_LEFT(old, field), field) = elm;  \
 if (RB_RIGHT(old, field))    \
  RB_PARENT(RB_RIGHT(old, field), field) = elm; \
 if (parent) {      \
  left = parent;     \
  do {      \
   RB_AUGMENT(left);   \
  } while ((left = RB_PARENT(left, field)) != NULL); \
 }       \
 goto color;      \
}        \
parent = RB_PARENT(elm, field);     \
color = RB_COLOR(elm, field);     \
if (child)       \
 RB_PARENT(child, field) = parent;   \
```

```
 if (parent) {       \
  if (RB_LEFT(parent, field) == elm)   \
   RB_LEFT(parent, field) = child;   \
  else       \
   RB_RIGHT(parent,
 field) = child;  \
  RB_AUGMENT(parent);     \
 } else       \
  RB_ROOT(head) = child;     \
color:        \
 if (color == RB_BLACK)      \
  name##_RB_REMOVE_COLOR(head, parent, child);  \
 return (old);       \
}        \
        \
/* Inserts a node into the RB tree */     \
attr struct type *       \
name##_RB_INSERT(struct name *head, struct type *elm)   \
{        \
 struct type *tmp;      \
 struct type *parent = NULL;     \
 int comp = 0;       \
 tmp = RB_ROOT(head);      \
 while (tmp) {       \
  parent = tmp;      \
  comp = (cmp)(elm, parent);    \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }       \
 RB_SET(elm, parent, field);     \
 if (parent != NULL) {      \
  if (comp < 0)      \
   RB_LEFT(parent, field) = elm;   \
  else       \
   RB_RIGHT(parent, field) = elm;   \
  RB_AUGMENT(parent);     \
 } else       \
  RB_ROOT(head) = elm;     \
 name##_RB_INSERT_COLOR(head,
 elm);    \
 return (NULL);       \
}        \
        \
/* Finds the node with the same key as elm */    \
```

```
attr struct type *      \
name##_RB_FIND(struct name *head, struct type *elm)   \
{       \
 struct type *tmp = RB_ROOT(head);    \
 int comp;      \
 while (tmp) {      \
  comp = cmp(elm, tmp);     \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else      \
   return (tmp);     \
 }       \
 return (NULL);      \
}       \
       \
/* Finds the first node greater than or equal to the search key */ \
attr struct type *      \
name##_RB_NFIND(struct name *head, struct type *elm)   \
{       \
 struct type *tmp = RB_ROOT(head);    \
 struct type *res = NULL;     \
 int comp;      \
 while (tmp) {      \
  comp = cmp(elm, tmp);     \
  if (comp < 0) {      \
   res = tmp;     \
   tmp = RB_LEFT(tmp, field);   \
  }       \
  else if (comp > 0)     \
   tmp =
 RB_RIGHT(tmp, field);   \
  else      \
   return (tmp);     \
 }       \
 return (res);      \
}       \
       \
/* ARGSUSED */       \
attr struct type *      \
name##_RB_NEXT(struct type *elm)     \
{       \
 if (RB_RIGHT(elm, field)) {     \
  elm = RB_RIGHT(elm, field);    \
  while (RB_LEFT(elm, field))    \
   elm = RB_LEFT(elm, field);   \
 } else {      \
```

```
 if (RB_PARENT(elm, field) &&    \
     (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
  elm = RB_PARENT(elm, field);   \
 else {       \
  while (RB_PARENT(elm, field) &&   \
      (elm == RB_RIGHT(RB_PARENT(elm, field), field)))\
   elm = RB_PARENT(elm, field);  \
  elm = RB_PARENT(elm, field);   \
 }       \
 }       \
 return (elm);       \
}        \
        \
/* ARGSUSED */       \
attr struct type *       \
name##_RB_PREV(struct type *elm)     \
{        \
 if (RB_LEFT(elm, field)) {     \
  elm = RB_LEFT(elm, field);    \
  while (RB_RIGHT(elm, field))    \
   elm = RB_RIGHT(elm, field);   \
 }
 else {       \
  if (RB_PARENT(elm, field) &&    \
     (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
      (elm == RB_LEFT(RB_PARENT(elm, field), field)))\
   elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);   \
  }       \
 }       \
 return (elm);       \
}        \
        \
attr struct type *       \
name##_RB_MINMAX(struct name *head, int val)    \
{        \
 struct type *tmp = RB_ROOT(head);    \
 struct type *parent = NULL;     \
 while (tmp) {       \
  parent = tmp;      \
  if (val < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else       \
   tmp = RB_RIGHT(tmp, field);   \
 }       \
```

```
 return (parent);      \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x,
 y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x)  name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x)  name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head)     \
 for ((x) = RB_MIN(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y)     \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y)    \
 for ((x) = RB_MIN(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE(x, name, head)    \
 for ((x) = RB_MAX(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y)    \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name,
 head, y)   \
 for ((x) = RB_MAX(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#endif /* _SYS_TREE_H_ */
```

```
pkgname=linux-headers
pkgver=6.14.2 # Follow the latest Linux stable
_kernver=${pkgver%.*}
pkgrel=0
pkgdesc="Linux system headers"
url="https://kernel.org/"
arch="all" # Headers are architecture specific
license="GPL-2.0-only"
makedepends="perl"
options="!check !dbg !strip !tracedeps !archcheck"
source="https://kernel.org/pub/linux/kernel/v6.x/linux-$_kernver.tar.xz
 revert-broken-uapi.patch
 0003-remove-inclusion-of-sysinfo.h-in-kernel.h.patch
```

1.1047 ncurses 6.5_p20250503-r0

1.1047.1 Available under license :

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
#ifndef _SYS_CDEFS_H_
#define _SYS_CDEFS_H_

#warning usage of non-standard #include <sys/cdefs.h> is deprecated

#undef __P
```

```
#undef __PMT

#define __P(args) args
#define __PMT(args) args

#define __CONCAT(x,y) x ## y
#define __STRING(x) #x

#ifdef  __cplusplus
# define __BEGIN_DECLS extern "C" {
# define __END_DECLS }
#else
# define __BEGIN_DECLS
# define __END_DECLS
#endif

#if defined(__GNUC__) && !defined(__cplusplus)
# define __THROW __attribute__ ((__nothrow__))
# define __NTH(fct) __attribute__ ((__nothrow__)) fct
#else
# define __THROW
# define __NTH(fct)     fct
#endif

#endif /* _SYS_CDEFS_H_ */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
```

```
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
```

```
/* Modified by Void Linux. */
/*
* Copyright 2002 Niels Provos <provos@citi.umich.edu>
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE
 AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y)      \
 ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) ||   \
  (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
#endif

/*
* This file defines data structures for different types of trees:
* splay trees and red-black trees.
*
```

```
* A splay tree is a self-organizing
 data structure.  Every operation
* on the tree causes a splay to happen.  The splay moves the requested
* node to the root of the tree and partly rebalances it.
*
* This has the benefit that request locality causes faster lookups as
* the requested nodes move to the top of the tree.  On the other hand,
* every lookup causes memory writes.
*
* The Balance Theorem bounds the total access time for m operations
* and n inserts on an initially empty tree as O((m + n)lg n).  The
* amortized cost for a sequence of m accesses to a splay tree is O(lg n);
*
* A red-black tree is a binary search tree with the node color as an
* extra attribute.  It fulfills a set of conditions:
* - every search path from the root to a leaf consists of the
*   same number of black nodes,
* - each red node (except for the root) has a black parent,
* - each leaf node is black.
*
* Every operation on a red-black tree is bounded as O(lg n).
* The maximum height of a red-black tree is 2lg (n+1).
 */

#define SPLAY_HEAD(name, type)      \
struct name {       \
 struct type *sph_root; /* root of the tree */   \
}

#define SPLAY_INITIALIZER(root)     \
 { NULL }

#define SPLAY_INIT(root) do {      \
 (root)->sph_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type)      \
struct {       \
 struct type *spe_left; /* left element */   \
 struct type *spe_right; /* right element */   \
}

#define SPLAY_LEFT(elm, field)  (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field)  (elm)->field.spe_right
#define SPLAY_ROOT(head)  (head)->sph_root
#define SPLAY_EMPTY(head)  (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
```

```
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do {   \
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do {   \
 SPLAY_RIGHT((head)->sph_root,
 field) = SPLAY_LEFT(tmp, field); \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do {    \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);  \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do {    \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do {  \
 SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
 SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field);\
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
 SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */

#define
 SPLAY_PROTOTYPE(name, type, field, cmp)    \
void name##_SPLAY(struct name *, struct type *);   \
void name##_SPLAY_MINMAX(struct name *, int);    \
struct type *name##_SPLAY_INSERT(struct name *, struct type *);  \
struct type *name##_SPLAY_REMOVE(struct name *, struct type *);  \
        \
/* Finds the node with the same key as elm */    \
static __inline struct type *      \
name##_SPLAY_FIND(struct name *head, struct type *elm)   \
{        \
 if (SPLAY_EMPTY(head))      \
  return(NULL);      \
 name##_SPLAY(head, elm);     \
```

```
 if ((cmp)(elm, (head)->sph_root) == 0)    \
  return (head->sph_root);    \
 return (NULL);       \
}         \
        \
static __inline _sys_tree_h_unused struct type *   \
name##_SPLAY_NEXT(struct name *head, struct type *elm)   \
{         \
 name##_SPLAY(head, elm);     \
 if (SPLAY_RIGHT(elm, field) != NULL) {    \
  elm = SPLAY_RIGHT(elm, field);    \
  while (SPLAY_LEFT(elm, field) != NULL) {  \
   elm = SPLAY_LEFT(elm, field);   \
  }       \
 }
 else        \
  elm = NULL;      \
 return (elm);       \
}         \
        \
static _sys_tree_h_unused __inline struct type *   \
name##_SPLAY_MIN_MAX(struct name *head, int val)   \
{         \
 name##_SPLAY_MINMAX(head, val);     \
       return (SPLAY_ROOT(head));     \
}

/* Main splay operation.
* Moves node close to the key of elm to top
*/
#define SPLAY_GENERATE(name, type, field, cmp)    \
struct type *        \
name##_SPLAY_INSERT(struct name *head, struct type *elm)  \
{         \
   if (SPLAY_EMPTY(head)) {      \
     SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
   } else {        \
     int __comp;       \
     name##_SPLAY(head, elm);     \
     __comp = (cmp)(elm, (head)->sph_root);   \
     if(__comp < 0) {      \
      SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
      SPLAY_RIGHT(elm, field) = (head)->sph_root;  \
      SPLAY_LEFT((head)->sph_root, field) = NULL;  \
     } else if (__comp > 0) {     \
      SPLAY_RIGHT(elm,
 field) = SPLAY_RIGHT((head)->sph_root, field);\
      SPLAY_LEFT(elm, field) = (head)->sph_root;  \
```

```
      SPLAY_RIGHT((head)->sph_root, field) = NULL; \
     } else      \
      return ((head)->sph_root);    \
   }        \
   (head)->sph_root = (elm);      \
   return (NULL);       \
}        \
        \
struct type *        \
name##_SPLAY_REMOVE(struct name *head, struct type *elm)  \
{        \
 struct type *__tmp;      \
 if (SPLAY_EMPTY(head))      \
  return (NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0) {   \
  if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
   (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
  } else {      \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
   name##_SPLAY(head, elm);   \
   SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
  }       \
 return (elm);      \
 }        \
 return (NULL);       \
}        \
        \
void         \
name##_SPLAY(struct
 name *head, struct type *elm)   \
{        \
 struct type __node, *__left, *__right, *__tmp;   \
 int __comp;       \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) {  \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) < 0){   \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
```

```
  }      \
  SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
  __tmp = SPLAY_RIGHT((head)->sph_root, field); \
  if (__tmp == NULL)    \
   break;     \
  if ((cmp)(elm, __tmp) > 0){    \
   SPLAY_ROTATE_LEFT(head, __tmp, field); \
   if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
    break;    \
  }      \
  SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
 }       \
 SPLAY_ASSEMBLE(head,
 &__node, __left, __right, field);  \
}        \
        \
/* Splay with either the minimum or the maximum element   \
* Used to find minimum or maximum element in tree.   \
*/        \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{        \
 struct type __node, *__left, *__right, *__tmp;   \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while (1) {       \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if (__comp < 0){    \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if (__comp > 0) {    \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root,
 field) == NULL)\
     break;    \
```

```
  }     \
  SPLAY_LINKRIGHT(head, __left, field);  \
 }      \
}       \
 SPLAY_ASSEMBLE(head, &__node, __left, __right, field);  \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y)  name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y)  name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head)    \
 for ((x) = SPLAY_MIN(name, head);   \
     (x) != NULL;     \
     (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type)     \
struct name {       \
 struct type *rbh_root; /* root of the tree */   \
}

#define RB_INITIALIZER(root)     \
 {
 NULL }

#define RB_INIT(root) do {      \
 (root)->rbh_root = NULL;    \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED  1
#define RB_ENTRY(type)      \
struct {        \
 struct type *rbe_left;  /* left element */  \
 struct type *rbe_right;  /* right element */  \
 struct type *rbe_parent; /* parent element */  \
 int rbe_color;   /* node color */  \
}
```

```
#define RB_LEFT(elm, field)  (elm)->field.rbe_left
#define RB_RIGHT(elm, field)  (elm)->field.rbe_right
#define RB_PARENT(elm, field)  (elm)->field.rbe_parent
#define RB_COLOR(elm, field)  (elm)->field.rbe_color
#define RB_ROOT(head)   (head)->rbh_root
#define RB_EMPTY(head)   (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do {     \
 RB_PARENT(elm, field) = parent;     \
 RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL;  \
 RB_COLOR(elm, field) = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do {    \
 RB_COLOR(black, field) = RB_BLACK;    \
 RB_COLOR(red, field)
 = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do {   \
 (tmp) = RB_RIGHT(elm, field);     \
 if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
  RB_PARENT(RB_LEFT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else       \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
  (head)->rbh_root = (tmp);    \
 RB_LEFT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do {   \
 (tmp) = RB_LEFT(elm, field);     \
 if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field))
 != NULL) { \
  RB_PARENT(RB_RIGHT(tmp, field), field) = (elm);  \
```

```
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else      \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
  (head)->rbh_root = (tmp);    \
 RB_RIGHT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp)    \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp)   \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr)  \
attr void name##_RB_INSERT_COLOR(struct name *, struct
 type *);  \
attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *);\
attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
attr struct type *name##_RB_INSERT(struct name *, struct type *); \
attr struct type *name##_RB_FIND(struct name *, struct type *);  \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *);   \
attr struct type *name##_RB_PREV(struct type *);   \
attr struct type *name##_RB_MINMAX(struct name *, int);   \
        \

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp)    \
 RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp)   \
 RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr)  \
attr void       \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm)  \
{       \
 struct type
 *parent, *gparent, *tmp;    \
 while ((parent = RB_PARENT(elm, field)) != NULL &&  \
```

```
    RB_COLOR(parent, field) == RB_RED) {   \
  gparent = RB_PARENT(parent, field);   \
  if (parent == RB_LEFT(gparent, field)) {  \
   tmp = RB_RIGHT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_RIGHT(parent, field) == elm) {  \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_RIGHT(head, gparent, tmp, field); \
  } else {      \
   tmp = RB_LEFT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_LEFT(parent, field) == elm)
  {  \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_LEFT(head, gparent, tmp, field); \
  }       \
 }       \
 RB_COLOR(head->rbh_root, field) = RB_BLACK;   \
}        \
        \
attr void        \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{        \
 struct type *tmp;      \
 while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
     elm != RB_ROOT(head)) {     \
  if (RB_LEFT(parent, field) == elm) {   \
   tmp = RB_RIGHT(parent, field);   \
```

```
  if (RB_COLOR(tmp, field) == RB_RED) {  \
   RB_SET_BLACKRED(tmp, parent, field); \
   RB_ROTATE_LEFT(head, parent, tmp, field);\
   tmp = RB_RIGHT(parent, field);  \
  }      \
  if ((RB_LEFT(tmp, field) == NULL ||  \
      RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
      (RB_RIGHT(tmp, field) == NULL ||  \
      RB_COLOR(RB_RIGHT(tmp,
field), field) == RB_BLACK)) {\
   RB_COLOR(tmp, field) = RB_RED;  \
   elm = parent;    \
   parent = RB_PARENT(elm, field);  \
  } else {     \
   if (RB_RIGHT(tmp, field) == NULL || \
       RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
    struct type *oleft;  \
    if ((oleft = RB_LEFT(tmp, field)) \
        != NULL)   \
     RB_COLOR(oleft, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_RIGHT(head, tmp, oleft, field);\
    tmp = RB_RIGHT(parent, field); \
   }     \
   RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
   RB_COLOR(parent, field) = RB_BLACK; \
   if (RB_RIGHT(tmp, field))  \
    RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
   RB_ROTATE_LEFT(head, parent, tmp, field);\
   elm = RB_ROOT(head);   \
   break;     \
  }      \
 } else {      \
  tmp = RB_LEFT(parent, field);   \
  if (RB_COLOR(tmp, field) == RB_RED) {  \
   RB_SET_BLACKRED(tmp, parent, field); \
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   tmp
= RB_LEFT(parent, field);  \
  }      \
  if ((RB_LEFT(tmp, field) == NULL ||  \
      RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
      (RB_RIGHT(tmp, field) == NULL ||  \
      RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
   RB_COLOR(tmp, field) = RB_RED;  \
   elm = parent;    \
   parent = RB_PARENT(elm, field);  \
  } else {     \
```

```
   if (RB_LEFT(tmp, field) == NULL || \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
     struct type *oright;  \
     if ((oright = RB_RIGHT(tmp, field)) \
         != NULL)   \
      RB_COLOR(oright, field) = RB_BLACK;\
     RB_COLOR(tmp, field) = RB_RED; \
     RB_ROTATE_LEFT(head, tmp, oright, field);\
     tmp = RB_LEFT(parent, field); \
    }     \
    RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
    RB_COLOR(parent, field) = RB_BLACK; \
    if (RB_LEFT(tmp, field))  \
     RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    elm = RB_ROOT(head);   \
    break;     \
   }      \
  }       \
 }        \
 if
 (elm)       \
  RB_COLOR(elm, field) = RB_BLACK;   \
}         \
         \
attr struct type *       \
name##_RB_REMOVE(struct name *head, struct type *elm)   \
{         \
 struct type *child, *parent, *old = elm;   \
 int color;       \
 if (RB_LEFT(elm, field) == NULL)    \
  child = RB_RIGHT(elm, field);    \
 else if (RB_RIGHT(elm, field) == NULL)    \
  child = RB_LEFT(elm, field);    \
 else {        \
  struct type *left;     \
  elm = RB_RIGHT(elm, field);    \
  while ((left = RB_LEFT(elm, field)) != NULL)  \
   elm = left;     \
  child = RB_RIGHT(elm, field);    \
  parent = RB_PARENT(elm, field);    \
  color = RB_COLOR(elm, field);    \
  if (child)      \
   RB_PARENT(child, field) = parent;  \
  if (parent) {      \
   if (RB_LEFT(parent, field) == elm)  \
    RB_LEFT(parent, field) = child;  \
   else      \
```

```
    RB_RIGHT(parent, field) = child; \
   RB_AUGMENT(parent);    \
  } else       \
   RB_ROOT(head)
 = child;    \
  if (RB_PARENT(elm, field) == old)   \
   parent = elm;     \
  (elm)->field = (old)->field;    \
  if (RB_PARENT(old, field)) {    \
   if (RB_LEFT(RB_PARENT(old, field), field) == old)\
    RB_LEFT(RB_PARENT(old, field), field) = elm;\
   else      \
    RB_RIGHT(RB_PARENT(old, field), field) = elm;\
   RB_AUGMENT(RB_PARENT(old, field));  \
  } else       \
   RB_ROOT(head) = elm;    \
  RB_PARENT(RB_LEFT(old, field), field) = elm;  \
  if (RB_RIGHT(old, field))    \
   RB_PARENT(RB_RIGHT(old, field), field) = elm; \
  if (parent) {      \
   left = parent;     \
   do {      \
    RB_AUGMENT(left);   \
   } while ((left = RB_PARENT(left, field)) != NULL); \
  }       \
  goto color;      \
 }        \
 parent = RB_PARENT(elm, field);     \
 color = RB_COLOR(elm, field);     \
 if (child)       \
  RB_PARENT(child, field) = parent;   \
 if (parent) {       \
  if (RB_LEFT(parent, field) == elm)   \
   RB_LEFT(parent, field) = child;   \
  else       \
   RB_RIGHT(parent,
 field) = child;  \
  RB_AUGMENT(parent);     \
  } else       \
  RB_ROOT(head) = child;     \
color:         \
 if (color == RB_BLACK)      \
  name##_RB_REMOVE_COLOR(head, parent, child);  \
 return (old);       \
}         \
        \
/* Inserts a node into the RB tree */     \
attr struct type *       \
```

```
name##_RB_INSERT(struct name *head, struct type *elm)   \
{       \
 struct type *tmp;      \
 struct type *parent = NULL;     \
 int comp = 0;       \
 tmp = RB_ROOT(head);      \
 while (tmp) {       \
  parent = tmp;      \
  comp = (cmp)(elm, parent);    \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }       \
 RB_SET(elm, parent, field);     \
 if (parent != NULL) {      \
  if (comp < 0)      \
   RB_LEFT(parent, field) = elm;   \
  else       \
   RB_RIGHT(parent, field) = elm;   \
  RB_AUGMENT(parent);     \
 } else       \
  RB_ROOT(head) = elm;     \
 name##_RB_INSERT_COLOR(head,
 elm);    \
 return (NULL);       \
}       \
       \
/* Finds the node with the same key as elm */    \
attr struct type *       \
name##_RB_FIND(struct name *head, struct type *elm)   \
{       \
 struct type *tmp = RB_ROOT(head);    \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }       \
 return (NULL);       \
}       \
       \
```

```
/* Finds the first node greater than or equal to the search key */ \
attr struct type *	\
name##_RB_NFIND(struct name *head, struct type *elm)	\
{	\
 struct type *tmp = RB_ROOT(head);	\
 struct type *res = NULL;	\
 int comp;	\
 while (tmp) {	\
  comp = cmp(elm, tmp);	\
  if (comp < 0) {	\
   res = tmp;	\
   tmp = RB_LEFT(tmp, field);	\
  }	\
  else if (comp > 0)	\
   tmp =
 RB_RIGHT(tmp, field);	\
  else	\
   return (tmp);	\
 }	\
 return (res);	\
}	\
	\
/* ARGSUSED */	\
attr struct type *	\
name##_RB_NEXT(struct type *elm)	\
{	\
 if (RB_RIGHT(elm, field)) {	\
  elm = RB_RIGHT(elm, field);	\
  while (RB_LEFT(elm, field))	\
   elm = RB_LEFT(elm, field);	\
 } else {	\
  if (RB_PARENT(elm, field) &&	\
      (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);	\
  else {	\
   while (RB_PARENT(elm, field) &&	\
       (elm == RB_RIGHT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);	\
   elm = RB_PARENT(elm, field);	\
  }	\
 }	\
 return (elm);	\
}	\
	\
/* ARGSUSED */	\
attr struct type *	\
name##_RB_PREV(struct type *elm)	\
{	\
```

```
 if (RB_LEFT(elm, field)) {     \
  elm = RB_LEFT(elm, field);    \
  while (RB_RIGHT(elm, field))    \
   elm = RB_RIGHT(elm, field);   \
 }
 else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
       (elm == RB_LEFT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);   \
  }       \
 }       \
 return (elm);       \
}        \
        \
attr struct type *       \
name##_RB_MINMAX(struct name *head, int val)    \
{        \
 struct type *tmp = RB_ROOT(head);    \
 struct type *parent = NULL;     \
 while (tmp) {       \
  parent = tmp;      \
  if (val < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else       \
   tmp = RB_RIGHT(tmp, field);   \
 }       \
 return (parent);      \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x,
 y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x)  name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x)  name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head)     \
```

```
 for ((x) = RB_MIN(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y)     \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y)    \
 for ((x) = RB_MIN(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE(x, name, head)    \
 for ((x) = RB_MAX(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y)    \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name,
 head, y)   \
 for ((x) = RB_MAX(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#endif /* _SYS_TREE_H_ */
```

```
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```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.1048 sqlite 3.49.2-r0

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---

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words, there are some non-public-domain files used to implement:

> ~~~
./configure && make
~~~

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    subdirectories.

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> ~~~
rm -rf configure autosetup autoconf
~~~

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---
autosetup - A build environment "autoconfigurator"

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1.1049 jbcrypt jbcrypt

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1.1050 akka 8.0.6

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Some advice for Alpakka contributors

Reference connector

To inspect how all of the below listed guidelines are to be implemented in practice, take a look at [the reference](reference/) connector. Feel free to use the reference connector as a starting point for new connectors.

API design

Public factory methods

Depending on the technology you integrate with Akka Streams and Alpakka you'll create Sources, Flows and Sinks. Regardless on how they are implemented make sure that you create the relevant Sources, Sinks and Flows APIs so they are
simple and easy to use.

Flows

> Reference connector [model classes](reference/src/main/scala/akka/stream/alpakka/reference/model.scala)

When designing Flows, consider adding an extra field to the in- and out-messages which is passed through. A

common
use case we see, is committing a Kafka offset after passing data to another system.

Implementing the Java API in Scala

> Reference connector [Java API factory
methods](reference/src/main/scala/akka/stream/alpakka/reference/javadsl/Reference.scala)

Alpakka,
same as Akka, aims to keep 100% feature parity between the various language DSLs. Implementing even the API for Java in Scala has proven the most viable way to do it, as long as you keep the following in mind:

1. Keep entry points separated in `javadsl` and `scaladsl`

1. Provide factory methods for Sources, Flows and Sinks in the `javadsl` package wrapping all the methods in the Scala API. The Akka Stream Scala instances have a `.asJava` method to convert to the `akka.stream.javadsl` counterparts.

1. When using Scala `object` instances, offer a `getInstance()` method.

1. When the Scala API contains an `apply` method, use `create` for Java users.

1. Do not nest Scala `object`s more than two levels (as access from Java becomes weird)

1. Be careful to convert values within data structures (eg. for `scala.Long` vs. `java.lang.Long`, use `scala.Long.box(value)`)

1. Complement any methods with Scala collections
with a Java collection version

1. Use the `akka.japi.Pair` class to return tuples

1. If the underlying Scala code requires an `ExecutionContext`, make the Java API take an `Executor` and use `ExecutionContext.fromExecutor(executor)` for conversion.

Overview of Scala types and their Java counterparts

Scala	Java
`scala.Option[T]`	`java.util.Optional<T>` (`OptionalDouble`, ...)
`scala.collection.immutable.Seq[T]`	`java.util.List<T>`
`scala.concurrent.Future[T]`	`java.util.concurrent.CompletionStage<T>`
`scala.concurrent.Promise[T]`	`java.util.concurrent.CompletableFuture<T>`
`scala.concurrent.duration.FiniteDuration`	`java.time.Duration`

Functions, if you want to allow the function to throw checked exceptions (like
Scala functions - the infrastructure should recover from those gracefully) or
leverage variance in the parameter or return types:

Scala	Java
`T => Unit`	`akka.japi.function.Procedure<T>`
`() => R` (`scala.Function0[R]`)	`akka.japi.function.Creator<R>`
`T => R` (`scala.Function1[T, R]`)	`akka.japi.function.Function<T, R>`

Functions, if you don't want to allow the function to throw checked exceptions
(unlike Scala functions):

Scala	Java
`T => Unit`	`java.util.function.Consumer<T>`
`() => R` (`scala.Function0[R]`)	`java.util.function.Supplier<R>`
`T => R` (`scala.Function1[T, R]`)	`java.util.function.Function<T, R>`

Settings

> Reference connector [settings classes](reference/src/main/scala/akka/stream/alpakka/reference/settings.scala)

Most technologies will have a couple of configuration settings that will be needed for several Sinks, Flows, or Sinks.

Create case classes collecting these settings instead of passing them in every method.

Create a default instance in the companion object with good defaults which can be updated via `withXxxx` methods.

Add `withXxxx` methods to specify certain fields
 in the settings instance.

In case you see the need to support reading the settings from `Config`, offer a method taking the `Config` instance
so
that the user can apply a proper namespace.
Refrain from using `akka.stream.alpakka` as Config prefix, prefer `alpakka` as root namespace.

Implementation details

Evolving APIs with binary compatibility

All Akka APIs aim to evolve in a binary compatible way within minor versions.

1. Do not use any default arguments

1. Do not use case classes (as the public copy method relies on default arguments)

1. To generate a case class replacement, consider using [Kaze Class](https://github.com/ktoso/kaze-class)

See [Binary Compatibilty Rules](https://doc.akka.io/libraries/akka-core/current/common/binary-compatibility-rules.html) in the Akka documentation.

See [Binary Compatibility for library authors](https://docs.scala-lang.org/overviews/core/binary-compatibility-for-library-authors.html)

Use [MigrationManager (MiMa)](https://github.com/lightbend/migration-manager)
 to validate, if versions are binary compatible. See [Binary compatibility (MiMa) in CONTRIBUTING.md](https://github.com/akka/alpakka/blob/main/CONTRIBUTING.md#binary-compatibility-mima) for details.

External Dependencies

All the external runtime dependencies for the project, including transitive dependencies, must have an open source license that is equal to, or compatible with, [Apache 2](http://www.apache.org/licenses/LICENSE-2.0).

Which licenses are compatible with Apache 2 are defined in [this doc](http://www.apache.org/legal/3party.html#category-a), where you can see that the licenses that are listed under ``Category A`` automatically compatible with Apache 2, while the ones listed under ``Category B`` needs additional action:

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 an Apache product will create a derivative work of a reciprocally-licensed portion of an Apache product without being aware of the applicable requirements.

Dependency licenses will be checked automatically by [FOSSA](https://fossa.com/).

Packages & Scoping

Use `private`, `private[connector]` and `final` extensively to limit the API surface.

Package	Purpose
`akka.stream.alpakka.connector.javadsl`	Java-only part of the API, normally factories for Sources, Flows and Sinks
`akka.stream.alpakka.connector.scaladsl`	Scala-only part of the API, normally factories for Sources, Flows and Sinks
`akka.stream.alpakka.connector`	Shared API, eg. settings classes
`akka.stream.alpakka.connector.impl`	Internal implementation in separate package

Graph stage checklist

> Reference connector [operator implementations](reference/src/main/scala/akka/stream/alpakka/reference/impl/)

*
 Keep mutable state within the `GraphStageLogic` only
* Open connections in `preStart`
* Release resources in `postStop`
* Fail early on configuration errors
* Make sure the code is thread-safe; if in doubt, please ask!
* No Blocking At Any Time -- in other words, avoid blocking whenever possible and replace it with asynchronous programming (async callbacks, stage actors)

Use of blocking APIs

Many technologies come with client libraries that only support blocking calls. Akka Stream stages that use blocking APIs should preferably be run on Akka's `IODispatcher`. (In rare cases you might want to allow the users to configure another dispatcher to run the blocking operations on.)

To select Akka's `IODispatcher` for a stage use
```$scala
override protected def initialAttributes: Attributes = Attributes(ActorAttributes.IODispatcher)
```

When the `IODispatcher` is selected, you do NOT need to wrap the blocking calls in `Future`s or `blocking`.

(Issue [akka/akka#25540](https://github.com/akka/akka/issues/25540)
 requests better support for selecting the correct execution context.)

Keep the code DRY

Avoid duplication of code between different Sources, Sinks and Flows. Extract the common logic to a common abstract
base `GraphStageLogic` that is inherited by the `GraphStage`s.

Sometimes it may be useful to provide a Sink or Source for a connector, even if the main concept is implemented as a Flow. This can be easily done by reusing the Flow implementation:
* Source: `Source.maybe.viaMat(MyFlow)(Keep.right)`
* Sink: `MyFlow.toMat(Sink.ignore)(Keep.right)`

You do not need to expose every configuration a Flow offers this way -- Focus on the most important ones.

Test

> Reference connector [Scala](reference/src/test/scala/docs/scaladsl/ReferenceSpec.scala) and
> [Java](reference/src/test/java/docs/javadsl/ReferenceTest.java) tests

Write tests for all public methods and possible settings.

Use Docker containers for any testing needed
by your application. The container's configuration can be added to the
`docker-compose.yml` file.
Please ensure that you limit the amount of resources used by the containers.

Documentation

> Reference connector [paradox documentation](docs/src/main/paradox/reference.md)

Using [Paradox](https://github.com/lightbend/paradox) syntax (which is very close to markdown), create or complement
the documentation in the `docs` module.
Prepare code snippets to be integrated by Paradox in the tests. Such example should be part of real tests and not in unused methods.

Use ScalaDoc if you see the need to describe the API usage better than the naming does.
The `@apidoc` Paradox directive automatically creates links to the corresponding Scaladoc page for both `scaladsl` and `javadsl`. Be sure to add a `$` at the end of the name if you point to an `object`.
`@apidoc[AmqpSink$]` will link to `akka/stream/alpakka/amqp/scaladsl/AmqpSink$.html` when viewing "Scala" and `akka/stream/alpakka/amqp/javadsl/AmqpSink$.html`
for "Java".

```

Run `sbt docs/previewSite` to generate reference and API docs, start an embedded web-server, and open a tab to the generated documentation while developing.
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
 labels. If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

```
/* This was suggested, but it shouldn't be right for debugger output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered
```

```
 label where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"
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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1
```

```
#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#elif defined(__loongarch_lp64)
/* The page size is configurable by the kernel to
 be 4, 16 or 64 KiB.
  For now, only the default page size of 16KiB is supported.  */
#define VTV_PAGE_SIZE 16384
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
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Version 3, 29 June 2007

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif

/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:

```
            FILENAME      RESULT
            "foo.c"       "foo.c"
            "foo/bar.c"   "bar.c"
            "/foo/bar.c"  "bar.c"
            "foo/bar/"    "bar/"
            "foo/bar//"   "bar//"
            "/"           ""
            "//"          ""
            ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
     * Various platforms have different functions in their libc.
       In particular, the glibc basename(),
 defined in <string.h>, does
       not consider trailing slashes to be part of the component:
            FILENAME      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
     * The 'basename' command eliminates trailing slashes and for a root
       produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
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1.1060 mpdecimal 4.0.1-r0

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1.1061 pcre2 10.43-r1

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1.1062 utmps 0.1.3.1-r0

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_pkgreal=BSD-Resource
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url="https://metacpan.org/release/BSD-Resource/"
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depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}
```

```
sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

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mini_sendmail - accept email on behalf of real sendmail

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
```

```
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}
```

```
list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
```

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The Kohonen neural network code for color optimization was written by Anthony Dekker.

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
```

```
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
/* $NetBSD: queue.h,v 1.70 2015/11/02 15:21:23 christos Exp $ */

/*
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*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
*/

#ifndef _SYS_QUEUE_H_
#define _SYS_QUEUE_H_

/*
* This file defines five types of data structures: singly-linked lists,
* lists, simple queues, tail queues, and circular queues.
*
* A singly-linked list is headed by a single forward pointer. The
* elements are singly linked for minimum space and
 pointer manipulation
* overhead at the expense of O(n) removal for arbitrary elements. New
* elements can be added to the list after an existing element or at the
* head of the list.  Elements being removed from the head of the list
* should use the explicit macro for this purpose for optimum
* efficiency. A singly-linked list may only be traversed in the forward
* direction.  Singly-linked lists are ideal for applications with large
* datasets and few or no removals or for implementing a LIFO queue.
*
* A list is headed by a single forward pointer (or an array of forward
* pointers for a hash table header). The elements are doubly linked
* so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before
* or after an existing element or at the head of the list. A list
* may only be traversed in the forward direction.
*
* A simple queue is headed by a pair of pointers, one the head of the
* list and the
```

```
 other to the tail of the list. The elements are singly
* linked to save space, so elements can only be removed from the
* head of the list. New elements can be added to the list after
* an existing element, at the head of the list, or at the end of the
* list. A simple queue may only be traversed in the forward direction.
*
* A tail queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before or
* after an existing element, at the head of the list, or at the end of
* the list. A tail queue may be traversed in either direction.
*
* A circle queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements
 can be added to the list before or after
* an existing element, at the head of the list, or at the end of the list.
* A circle queue may be traversed in either direction, but has a more
* complex end of list detection.
*
* For details on the use of these macros, see the queue(3) manual page.
*/

/*
* Include the definition of NULL only on NetBSD because sys/null.h
* is not available elsewhere.  This conditional makes the header
* portable and it can simply be dropped verbatim into any system.
* The caveat is that on other systems some other header
* must provide NULL before the macros can be used.
*/
#ifdef __NetBSD__
#include <sys/null.h>
#endif

#if defined(QUEUEDEBUG)
# if defined(_KERNEL)
#  define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
#  include <err.h>
#  define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
* Singly-linked List definitions.
*/
```

```
#define SLIST_HEAD(name, type)      \
struct name {       \
 struct type *slh_first; /* first
 element */   \
}

#define SLIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define SLIST_ENTRY(type)      \
struct {       \
 struct type *sle_next; /* next element */   \
}

/*
* Singly-linked List access methods.
*/
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head)  NULL
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field)     \
 for((var) = (head)->slh_first;     \
    (var) != SLIST_END(head);     \
    (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = SLIST_FIRST((head));    \
    (var) != SLIST_END(head) &&     \
    ((tvar) = SLIST_NEXT((var), field), 1);   \
    (var) = (tvar))

/*
* Singly-linked List functions.
*/
#define SLIST_INIT(head) do {      \
 (head)->slh_first = SLIST_END(head);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do {   \
 (elm)->field.sle_next = (slistelm)->field.sle_next;  \
 (slistelm)->field.sle_next
 = (elm);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do {   \
 (elm)->field.sle_next = (head)->slh_first;   \
```

```
 (head)->slh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do {   \
 (slistelm)->field.sle_next =     \
    SLIST_NEXT(SLIST_NEXT((slistelm), field), field);  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do {    \
 (head)->slh_first = (head)->slh_first->field.sle_next;  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE(head, elm, type, field) do {   \
 if ((head)->slh_first == (elm)) {    \
  SLIST_REMOVE_HEAD((head), field);   \
 }       \
 else {       \
  struct type *curelm = (head)->slh_first;  \
  while(curelm->field.sle_next != (elm))   \
   curelm = curelm->field.sle_next;  \
  curelm->field.sle_next =    \
     curelm->field.sle_next->field.sle_next;  \
 }       \
} while (/*CONSTCOND*/0)



/*
* List definitions.
 */
#define LIST_HEAD(name, type)      \
struct name {       \
 struct type *lh_first; /* first element */   \
}

#define LIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define LIST_ENTRY(type)      \
struct {       \
 struct type *le_next; /* next element */   \
 struct type **le_prev; /* address of previous next element */ \
}

/*
* List access methods.
*/
#define LIST_FIRST(head)  ((head)->lh_first)
#define LIST_END(head)   NULL
```

```
#define LIST_EMPTY(head)  ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field)  ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field)     \
 for ((var) = ((head)->lh_first);    \
    (var) != LIST_END(head);     \
    (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = LIST_FIRST((head));    \
    (var) != LIST_END(head) &&     \
    ((tvar) = LIST_NEXT((var), field), 1);   \
    (var) = (tvar))

#define LIST_MOVE(head1, head2) do {     \
 LIST_INIT((head2));      \
 if (!LIST_EMPTY((head1)))
 {     \
  (head2)->lh_first = (head1)->lh_first;   \
  LIST_INIT((head1));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* List functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)   \
 if ((head)->lh_first &&      \
    (head)->lh_first->field.le_prev != &(head)->lh_first) \
  QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field)     \
 if ((elm)->field.le_next &&     \
    (elm)->field.le_next->field.le_prev !=   \
    &(elm)->field.le_next)     \
  QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm),  \
     __FILE__, __LINE__);    \
 if (*(elm)->field.le_prev != (elm))    \
  QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm),  \
     __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)    \
 (elm)->field.le_next = (void *)1L;    \
 (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm,
```

```
 field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do {      \
 (head)->lh_first = LIST_END(head);    \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 if (((elm)->field.le_next = (listelm)->field.le_next) !=  \
     LIST_END(head))      \
  (listelm)->field.le_next->field.le_prev =  \
      &(elm)->field.le_next;    \
 (listelm)->field.le_next = (elm);    \
 (elm)->field.le_prev = &(listelm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 (elm)->field.le_prev = (listelm)->field.le_prev;  \
 (elm)->field.le_next = (listelm);    \
 *(listelm)->field.le_prev = (elm);    \
 (listelm)->field.le_prev = &(elm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do {    \
 QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.le_next
 = (head)->lh_first) != LIST_END(head))\
  (head)->lh_first->field.le_prev = &(elm)->field.le_next;\
 (head)->lh_first = (elm);     \
 (elm)->field.le_prev = &(head)->lh_first;   \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do {     \
 QUEUEDEBUG_LIST_OP((elm), field)    \
 if ((elm)->field.le_next != NULL)    \
  (elm)->field.le_next->field.le_prev =    \
      (elm)->field.le_prev;    \
 *(elm)->field.le_prev = (elm)->field.le_next;   \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do {    \
 if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
  (elm2)->field.le_next->field.le_prev =   \
      &(elm2)->field.le_next;    \
```

```
 (elm2)->field.le_prev = (elm)->field.le_prev;   \
 *(elm2)->field.le_prev = (elm2);    \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

/*
* Simple queue definitions.
*/
#define SIMPLEQ_HEAD(name, type)     \
struct name {        \
 struct
 type *sqh_first; /* first element */   \
 struct type **sqh_last; /* addr of last next element */  \
}

#define SIMPLEQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type)      \
struct {        \
 struct type *sqe_next; /* next element */   \
}

/*
* Simple queue access methods.
*/
#define SIMPLEQ_FIRST(head)  ((head)->sqh_first)
#define SIMPLEQ_END(head)  NULL
#define SIMPLEQ_EMPTY(head)  ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)

#define SIMPLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head);     \
     (var) = ((var)->field.sqe_next))

#define SIMPLEQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head) &&    \
     ((next = ((var)->field.sqe_next)), 1);   \
     (var) = (next))

/*
* Simple queue functions.
*/
#define SIMPLEQ_INIT(head) do {      \
 (head)->sqh_first = NULL;     \
 (head)->sqh_last
```

```
 = &(head)->sqh_first;    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (head)->sqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.sqe_next = NULL;     \
 *(head)->sqh_last = (elm);     \
 (head)->sqh_last = &(elm)->field.sqe_next;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL)\
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (listelm)->field.sqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
  (head)->sqh_last = &(head)->sqh_first;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do {   \
 if
 (((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
    == NULL)       \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->sqh_first == (elm)) {    \
  SIMPLEQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->sqh_first;  \
  while (curelm->field.sqe_next != (elm))   \
   curelm = curelm->field.sqe_next;  \
  if ((curelm->field.sqe_next =    \
   curelm->field.sqe_next->field.sqe_next) == NULL) \
      (head)->sqh_last = &(curelm)->field.sqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do {    \
 if (!SIMPLEQ_EMPTY((head2))) {     \
```

```
  *(head1)->sqh_last = (head2)->sqh_first;  \
  (head1)->sqh_last = (head2)->sqh_last;  \
  SIMPLEQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field)     \
 (SIMPLEQ_EMPTY((head)) ?      \
  NULL :       \
        ((struct type
 *)(void *)    \
  ((char *)((head)->sqh_last) - offsetof(struct type, field))))

/*
* Tail queue definitions.
*/
#define _TAILQ_HEAD(name, type, qual)     \
struct name {        \
 qual type *tqh_first;  /* first element */  \
 qual type *qual *tqh_last; /* addr of last next element */ \
}
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head)     \
 { TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual)     \
struct {        \
 qual type *tqe_next;  /* next element */  \
 qual type *qual *tqe_prev; /* address of previous next element */\
}
#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
* Tail queue access methods.
*/
#define TAILQ_FIRST(head)  ((head)->tqh_first)
#define TAILQ_END(head)   (NULL)
#define TAILQ_NEXT(elm, field)  ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
 (*(((struct headname *)(void *)((head)->tqh_last))->tqh_last))
#define TAILQ_PREV(elm, headname, field) \
 (*(((struct headname
 *)(void *)((elm)->field.tqe_prev))->tqh_last))
#define TAILQ_EMPTY(head)  (TAILQ_FIRST(head) == TAILQ_END(head))


#define TAILQ_FOREACH(var, head, field)     \
```

```
 for ((var) = ((head)->tqh_first);    \
    (var) != TAILQ_END(head);     \
    (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->tqh_first);    \
    (var) != TAILQ_END(head) &&     \
    ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field)  \
 for ((var) = TAILQ_LAST((head), headname);   \
    (var) != TAILQ_END(head);     \
    (var) = TAILQ_PREV((var), headname, field))

#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
 for ((var) = TAILQ_LAST((head), headname);   \
    (var) != TAILQ_END(head) &&     \
    ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
* Tail queue functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head,
 elm, field)   \
 if ((head)->tqh_first &&     \
    (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)   \
 if (*(head)->tqh_last != NULL)     \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_OP(elm, field)     \
 if ((elm)->field.tqe_next &&     \
    (elm)->field.tqe_next->field.tqe_prev !=   \
    &(elm)->field.tqe_next)     \
  QUEUEDEBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
      __FILE__, __LINE__);    \
 if (*(elm)->field.tqe_prev != (elm))    \
  QUEUEDEBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)   \
 if ((elm)->field.tqe_next == NULL &&    \
    (head)->tqh_last != &(elm)->field.tqe_next)   \
  QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d",\
      (head), (elm), __FILE__,
```

```
 __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)    \
 (elm)->field.tqe_next = (void *)1L;    \
 (elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do {      \
 (head)->tqh_first = TAILQ_END(head);    \
 (head)->tqh_last = &(head)->tqh_first;    \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head))\
  (head)->tqh_first->field.tqe_prev =   \
     &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (head)->tqh_first = (elm);     \
 (elm)->field.tqe_prev = &(head)->tqh_first;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head,
 elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field)  \
 (elm)->field.tqe_next = TAILQ_END(head);   \
 (elm)->field.tqe_prev = (head)->tqh_last;   \
 *(head)->tqh_last = (elm);     \
 (head)->tqh_last = &(elm)->field.tqe_next;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 if (((elm)->field.tqe_next = (listelm)->field.tqe_next) !=  \
    TAILQ_END(head))      \
  (elm)->field.tqe_next->field.tqe_prev =   \
     &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (listelm)->field.tqe_next = (elm);    \
 (elm)->field.tqe_prev = &(listelm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)
```

```
#define TAILQ_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 (elm)->field.tqe_prev = (listelm)->field.tqe_prev;  \
 (elm)->field.tqe_next = (listelm);    \
 *(listelm)->field.tqe_prev = (elm);    \
 (listelm)->field.tqe_prev
 = &(elm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_TAILQ_PREREMOVE((head), (elm), field)  \
 QUEUEDEBUG_TAILQ_OP((elm), field)    \
 if (((elm)->field.tqe_next) != TAILQ_END(head))   \
  (elm)->field.tqe_next->field.tqe_prev =   \
     (elm)->field.tqe_prev;    \
 else       \
  (head)->tqh_last = (elm)->field.tqe_prev;  \
 *(elm)->field.tqe_prev = (elm)->field.tqe_next;   \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm), field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_REPLACE(head, elm, elm2, field) do {   \
      if (((elm2)->field.tqe_next = (elm)->field.tqe_next) !=  \
    TAILQ_END(head))        \
            (elm2)->field.tqe_next->field.tqe_prev =  \
               &(elm2)->field.tqe_next;    \
      else       \
            (head)->tqh_last = &(elm2)->field.tqe_next;  \
      (elm2)->field.tqe_prev = (elm)->field.tqe_prev;   \
      *(elm2)->field.tqe_prev = (elm2);    \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm),
 field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do {    \
 if (!TAILQ_EMPTY(head2)) {     \
  *(head1)->tqh_last = (head2)->tqh_first;  \
  (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
  (head1)->tqh_last = (head2)->tqh_last;   \
  TAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* Singly-linked Tail queue declarations.
*/
#define STAILQ_HEAD(name, type)      \
```

```
struct name {       \
 struct type *stqh_first; /* first element */  \
 struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type)      \
struct {        \
 struct type *stqe_next; /* next element */   \
}

/*
* Singly-linked Tail queue access methods.
*/
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head)
 == STAILQ_END(head))

/*
* Singly-linked Tail queue functions.
*/
#define STAILQ_INIT(head) do {      \
 (head)->stqh_first = NULL;     \
 (head)->stqh_last = &(head)->stqh_first;    \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (head)->stqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.stqe_next = NULL;     \
 *(head)->stqh_last = (elm);     \
 (head)->stqh_last = &(elm)->field.stqe_next;   \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL)\
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (listelm)->field.stqe_next = (elm);    \
} while (/*CONSTCOND*/0)
```

```
#define STAILQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->stqh_first = (head)->stqh_first->field.stqe_next)
 == NULL) \
  (head)->stqh_last = &(head)->stqh_first;   \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->stqh_first == (elm)) {    \
  STAILQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->stqh_first;  \
  while (curelm->field.stqe_next != (elm))   \
   curelm = curelm->field.stqe_next;  \
  if ((curelm->field.stqe_next =    \
   curelm->field.stqe_next->field.stqe_next) == NULL) \
      (head)->stqh_last = &(curelm)->field.stqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->stqh_first);    \
  (var);       \
  (var) = ((var)->field.stqe_next))

#define STAILQ_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = STAILQ_FIRST((head));    \
    (var) && ((tvar) = STAILQ_NEXT((var), field), 1);  \
    (var) = (tvar))

#define STAILQ_CONCAT(head1, head2) do {    \
 if (!STAILQ_EMPTY((head2))) {     \
  *(head1)->stqh_last
 = (head2)->stqh_first;  \
  (head1)->stqh_last = (head2)->stqh_last;  \
  STAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_LAST(head, type, field)     \
 (STAILQ_EMPTY((head)) ?      \
  NULL :       \
       ((struct type *)(void *)    \
  ((char *)((head)->stqh_last) - offsetof(struct type, field))))



#ifndef _KERNEL
/*
* Circular queue definitions. Do not use. We still keep the macros
```

```
* for compatibility but because of pointer aliasing issues their use
* is discouraged!
*/

/*
* __launder_type():  We use this ugly hack to work around the the compiler
* noticing that two types may not alias each other and elide tests in code.
* We hit this in the CIRCLEQ macros when comparing 'struct name *' and
* 'struct type *' (see CIRCLEQ_HEAD()).  Modern compilers (such as GCC
* 4.8) declare these comparisons as always false, causing the code to
* not run as designed.
*
* This hack is only to be used for comparisons and thus can be fully const.
 * Do not use for assignment.
*
* If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
* this by changing the head/tail sentinal values, but see the note above
* this one.
*/
static __inline const void * __launder_type(const void *);
static __inline const void *
__launder_type(const void *__x)
{
 __asm __volatile("" : "+r" (__x));
 return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)    \
 if ((head)->cqh_first != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \
       __FILE__, __LINE__);    \
 if ((head)->cqh_last != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
       __FILE__, __LINE__);
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_last != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ
 elm last %p %s:%d", \
      (elm), __FILE__, __LINE__);   \
 } else {      \
  if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
      (elm), __FILE__, __LINE__);   \
 }       \
```

```
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_first != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 } else {       \
  if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 }
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)   \
 (elm)->field.cqe_next = (void *)1L;    \
 (elm)->field.cqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type)     \
struct name {        \
 struct type *cqh_first;  /*
 first element */  \
 struct type *cqh_last;  /* last element */  \
}

#define CIRCLEQ_HEAD_INITIALIZER(head)     \
 { CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type)      \
struct {        \
 struct type *cqe_next;  /* next element */  \
 struct type *cqe_prev;  /* previous element */  \
}

/*
* Circular queue functions.
*/
#define CIRCLEQ_INIT(head) do {      \
 (head)->cqh_first = CIRCLEQ_END(head);    \
 (head)->cqh_last = CIRCLEQ_END(head);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm)->field.cqe_next;  \
 (elm)->field.cqe_prev = (listelm);    \
 if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
```

```
 (head)->cqh_last = (elm);    \
 else       \
  (listelm)->field.cqe_next->field.cqe_prev = (elm); \
 (listelm)->field.cqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_BEFORE(head,
 listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm);    \
 (elm)->field.cqe_prev = (listelm)->field.cqe_prev;  \
 if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm);    \
 else       \
  (listelm)->field.cqe_prev->field.cqe_next = (elm); \
 (listelm)->field.cqe_prev = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next = (head)->cqh_first;   \
 (elm)->field.cqe_prev = CIRCLEQ_END(head);   \
 if ((head)->cqh_last == CIRCLEQ_ENDC(head))   \
  (head)->cqh_last = (elm);    \
 else       \
  (head)->cqh_first->field.cqe_prev = (elm);  \
 (head)->cqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next
 = CIRCLEQ_END(head);   \
 (elm)->field.cqe_prev = (head)->cqh_last;   \
 if ((head)->cqh_first == CIRCLEQ_ENDC(head))   \
  (head)->cqh_first = (elm);    \
 else       \
  (head)->cqh_last->field.cqe_next = (elm);  \
 (head)->cqh_last = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (elm), field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm)->field.cqe_prev;  \
 else       \
```

```
 (elm)->field.cqe_next->field.cqe_prev =   \
     (elm)->field.cqe_prev;    \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm)->field.cqe_next;  \
 else       \
  (elm)->field.cqe_prev->field.cqe_next =   \
     (elm)->field.cqe_next;    \
 QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->cqh_first);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var)
 = ((var)->field.cqe_next))

#define CIRCLEQ_FOREACH_REVERSE(var, head, field)   \
 for ((var) = ((head)->cqh_last);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var) = ((var)->field.cqe_prev))

/*
* Circular queue access methods.
*/
#define CIRCLEQ_FIRST(head)  ((head)->cqh_first)
#define CIRCLEQ_LAST(head)  ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head)  (__launder_type(head))
/* For assignments */
#define CIRCLEQ_END(head)  ((void *)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)
#define CIRCLEQ_EMPTY(head)      \
   (CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

#define CIRCLEQ_LOOP_NEXT(head, elm, field)    \
 (((elm)->field.cqe_next == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_first)     \
     : (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field)    \
 (((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_last)     \
     :
 (elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
```

```
#ifndef _SYS_CDEFS_H_
#define _SYS_CDEFS_H_

#warning usage of non-standard #include <sys/cdefs.h> is deprecated

#undef __P
#undef __PMT

#define __P(args) args
#define __PMT(args) args

#define __CONCAT(x,y) x ## y
#define __STRING(x) #x

#ifdef  __cplusplus
# define __BEGIN_DECLS extern "C" {
# define __END_DECLS }
#else
# define __BEGIN_DECLS
# define __END_DECLS
#endif

#if defined(__GNUC__) && !defined(__cplusplus)
# define __THROW __attribute__ ((__nothrow__))
# define __NTH(fct) __attribute__ ((__nothrow__)) fct
#else
# define __THROW
# define __NTH(fct)     fct
#endif

#endif /* _SYS_CDEFS_H_ */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver
```

```
replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}
```

```
sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/* Modified by Void Linux. */
/*
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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.
*/

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y)      \
 ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) ||   \
  (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
```

```
#endif

/*
* This file defines data structures for different types of trees:
* splay trees and red-black trees.
*
* A splay tree is a self-organizing
 data structure.  Every operation
* on the tree causes a splay to happen.  The splay moves the requested
* node to the root of the tree and partly rebalances it.
*
* This has the benefit that request locality causes faster lookups as
* the requested nodes move to the top of the tree.  On the other hand,
* every lookup causes memory writes.
*
* The Balance Theorem bounds the total access time for m operations
* and n inserts on an initially empty tree as O((m + n)lg n).  The
* amortized cost for a sequence of m accesses to a splay tree is O(lg n);
*
* A red-black tree is a binary search tree with the node color as an
* extra attribute.  It fulfills a set of conditions:
* - every search path from the root to a leaf consists of the
*   same number of black nodes,
* - each red node (except for the root) has a black parent,
* - each leaf node is black.
*
* Every operation on a red-black tree is bounded as O(lg n).
* The maximum height of a red-black tree is 2lg (n+1).
 */

#define SPLAY_HEAD(name, type)      \
struct name {       \
 struct type *sph_root; /* root of the tree */   \
}

#define SPLAY_INITIALIZER(root)     \
 { NULL }

#define SPLAY_INIT(root) do {      \
 (root)->sph_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type)      \
struct {        \
 struct type *spe_left; /* left element */   \
 struct type *spe_right; /* right element */   \
}
```

```
#define SPLAY_LEFT(elm, field)  (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field)  (elm)->field.spe_right
#define SPLAY_ROOT(head)  (head)->sph_root
#define SPLAY_EMPTY(head)  (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do {   \
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do {   \
 SPLAY_RIGHT((head)->sph_root,
 field) = SPLAY_LEFT(tmp, field); \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do {    \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);  \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do {    \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do {  \
 SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
 SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field);\
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
 SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */

#define
 SPLAY_PROTOTYPE(name, type, field, cmp)    \
void name##_SPLAY(struct name *, struct type *);   \
void name##_SPLAY_MINMAX(struct name *, int);    \
struct type *name##_SPLAY_INSERT(struct name *, struct type *);  \
struct type *name##_SPLAY_REMOVE(struct name *, struct type *);  \
        \
/* Finds the node with the same key as elm */    \
```

```
static __inline struct type *      \
name##_SPLAY_FIND(struct name *head, struct type *elm)   \
{        \
 if (SPLAY_EMPTY(head))      \
  return(NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0)    \
  return (head->sph_root);    \
 return (NULL);       \
}        \
        \
static __inline _sys_tree_h_unused struct type *   \
name##_SPLAY_NEXT(struct name *head, struct type *elm)   \
{        \
 name##_SPLAY(head, elm);     \
 if (SPLAY_RIGHT(elm, field) != NULL) {    \
  elm = SPLAY_RIGHT(elm, field);    \
  while (SPLAY_LEFT(elm, field) != NULL) {  \
   elm = SPLAY_LEFT(elm, field);   \
  }       \
 }
 else       \
  elm = NULL;      \
 return (elm);       \
}        \
        \
static _sys_tree_h_unused __inline struct type *   \
name##_SPLAY_MIN_MAX(struct name *head, int val)   \
{        \
 name##_SPLAY_MINMAX(head, val);     \
       return (SPLAY_ROOT(head));     \
}

/* Main splay operation.
* Moves node close to the key of elm to top
*/
#define SPLAY_GENERATE(name, type, field, cmp)    \
struct type *        \
name##_SPLAY_INSERT(struct name *head, struct type *elm)  \
{        \
   if (SPLAY_EMPTY(head)) {      \
     SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
   } else {        \
     int __comp;       \
     name##_SPLAY(head, elm);     \
     __comp = (cmp)(elm, (head)->sph_root);   \
     if(__comp < 0) {      \
      SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
```

```
      SPLAY_RIGHT(elm, field) = (head)->sph_root;  \
      SPLAY_LEFT((head)->sph_root, field) = NULL;  \
     } else if (__comp > 0) {     \
      SPLAY_RIGHT(elm,
 field) = SPLAY_RIGHT((head)->sph_root, field);\
      SPLAY_LEFT(elm, field) = (head)->sph_root;  \
      SPLAY_RIGHT((head)->sph_root, field) = NULL; \
     } else       \
      return ((head)->sph_root);    \
   }        \
   (head)->sph_root = (elm);      \
   return (NULL);       \
}        \
        \
struct type *        \
name##_SPLAY_REMOVE(struct name *head, struct type *elm)  \
{        \
 struct type *__tmp;      \
 if (SPLAY_EMPTY(head))      \
  return (NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0) {   \
  if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
   (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
  } else {      \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
   name##_SPLAY(head, elm);   \
   SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
  }       \
  return (elm);      \
 }        \
 return (NULL);       \
}        \
        \
void         \
name##_SPLAY(struct
 name *head, struct type *elm)   \
{        \
 struct type __node, *__left, *__right, *__tmp;   \
 int __comp;       \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) {  \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
```

```
  if (__tmp == NULL)    \
   break;     \
  if ((cmp)(elm, __tmp) < 0){   \
   SPLAY_ROTATE_RIGHT(head, __tmp, field); \
   if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
    break;    \
  }      \
  SPLAY_LINKLEFT(head, __right, field);  \
 } else if (__comp > 0) {    \
  __tmp = SPLAY_RIGHT((head)->sph_root, field); \
  if (__tmp == NULL)    \
   break;     \
  if ((cmp)(elm, __tmp) > 0){   \
   SPLAY_ROTATE_LEFT(head, __tmp, field); \
   if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
    break;    \
  }      \
  SPLAY_LINKRIGHT(head, __left, field);  \
 }       \
}       \
 SPLAY_ASSEMBLE(head,
 &__node, __left, __right, field);  \
}        \
       \
/* Splay with either the minimum or the maximum element   \
* Used to find minimum or maximum element in tree.   \
*/        \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{        \
 struct type __node, *__left, *__right, *__tmp;   \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while (1) {       \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if (__comp < 0){    \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
```

```
    break;     \
   if (__comp > 0) {    \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root,
 field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
 }        \
 SPLAY_ASSEMBLE(head, &__node, __left, __right, field);  \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y)  name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y)  name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head)     \
 for ((x) = SPLAY_MIN(name, head);    \
     (x) != NULL;      \
     (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type)      \
struct name {        \
 struct type *rbh_root; /* root of the tree */   \
}

#define RB_INITIALIZER(root)      \
 {
 NULL }

#define RB_INIT(root) do {      \
 (root)->rbh_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED  1
#define RB_ENTRY(type)       \
struct {        \
```

```
 struct type *rbe_left;  /* left element */  \
 struct type *rbe_right;  /* right element */  \
 struct type *rbe_parent; /* parent element */  \
 int rbe_color;   /* node color */  \
}

#define RB_LEFT(elm, field)  (elm)->field.rbe_left
#define RB_RIGHT(elm, field)  (elm)->field.rbe_right
#define RB_PARENT(elm, field)  (elm)->field.rbe_parent
#define RB_COLOR(elm, field)  (elm)->field.rbe_color
#define RB_ROOT(head)   (head)->rbh_root
#define RB_EMPTY(head)   (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do {     \
 RB_PARENT(elm, field) = parent;     \
 RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL;  \
 RB_COLOR(elm, field) = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do {    \
 RB_COLOR(black, field) = RB_BLACK;    \
 RB_COLOR(red, field)
 = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do {   \
 (tmp) = RB_RIGHT(elm, field);     \
 if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
  RB_PARENT(RB_LEFT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else       \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
 (head)->rbh_root = (tmp);    \
 RB_LEFT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)
```

```
#define RB_ROTATE_RIGHT(head, elm, tmp, field) do {   \
 (tmp) = RB_LEFT(elm, field);     \
 if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field))
 != NULL) { \
  RB_PARENT(RB_RIGHT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else       \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
  (head)->rbh_root = (tmp);    \
 RB_RIGHT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp)    \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp)   \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr)  \
attr void name##_RB_INSERT_COLOR(struct name *, struct
 type *);  \
attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *);\
attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
attr struct type *name##_RB_INSERT(struct name *, struct type *); \
attr struct type *name##_RB_FIND(struct name *, struct type *);  \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *);   \
attr struct type *name##_RB_PREV(struct type *);   \
attr struct type *name##_RB_MINMAX(struct name *, int);   \
        \

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp)    \
 RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp)   \
 RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr)  \
```

```
attr void       \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm)  \
{       \
 struct type
 *parent, *gparent, *tmp;    \
 while ((parent = RB_PARENT(elm, field)) != NULL &&  \
     RB_COLOR(parent, field) == RB_RED) {    \
  gparent = RB_PARENT(parent, field);   \
  if (parent == RB_LEFT(gparent, field)) {  \
   tmp = RB_RIGHT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_RIGHT(parent, field) == elm) {  \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_RIGHT(head, gparent, tmp, field); \
  } else {      \
   tmp = RB_LEFT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_LEFT(parent, field) == elm)
  {  \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_LEFT(head, gparent, tmp, field); \
  }       \
 }       \
 RB_COLOR(head->rbh_root, field) = RB_BLACK;   \
}       \
        \
attr void       \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
```

```
{       \
 struct type *tmp;      \
 while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
     elm != RB_ROOT(head)) {     \
  if (RB_LEFT(parent, field) == elm) {   \
   tmp = RB_RIGHT(parent, field);   \
   if (RB_COLOR(tmp, field) == RB_RED) {  \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = RB_RIGHT(parent, field);  \
   }      \
   if ((RB_LEFT(tmp, field) == NULL ||  \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
       (RB_RIGHT(tmp, field) == NULL ||  \
       RB_COLOR(RB_RIGHT(tmp,
 field), field) == RB_BLACK)) {\
    RB_COLOR(tmp, field) = RB_RED;  \
    elm = parent;    \
    parent = RB_PARENT(elm, field);  \
   } else {     \
    if (RB_RIGHT(tmp, field) == NULL || \
        RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
     struct type *oleft;  \
     if ((oleft = RB_LEFT(tmp, field)) \
         != NULL)   \
      RB_COLOR(oleft, field) = RB_BLACK;\
     RB_COLOR(tmp, field) = RB_RED; \
     RB_ROTATE_RIGHT(head, tmp, oleft, field);\
     tmp = RB_RIGHT(parent, field); \
    }     \
    RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
    RB_COLOR(parent, field) = RB_BLACK; \
    if (RB_RIGHT(tmp, field))  \
     RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    elm = RB_ROOT(head);   \
    break;     \
   }      \
  } else {      \
   tmp = RB_LEFT(parent, field);   \
   if (RB_COLOR(tmp, field) == RB_RED) {  \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp
= RB_LEFT(parent, field);  \
   }      \
   if ((RB_LEFT(tmp, field) == NULL ||  \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
```

```
      (RB_RIGHT(tmp, field) == NULL ||  \
      RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
    RB_COLOR(tmp, field) = RB_RED;  \
    elm = parent;    \
    parent = RB_PARENT(elm, field);  \
   } else {     \
    if (RB_LEFT(tmp, field) == NULL || \
        RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
     struct type *oright;  \
     if ((oright = RB_RIGHT(tmp, field)) \
         != NULL)   \
      RB_COLOR(oright, field) = RB_BLACK;\
     RB_COLOR(tmp, field) = RB_RED; \
     RB_ROTATE_LEFT(head, tmp, oright, field);\
     tmp = RB_LEFT(parent, field); \
    }     \
    RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
    RB_COLOR(parent, field) = RB_BLACK; \
    if (RB_LEFT(tmp, field))  \
     RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    elm = RB_ROOT(head);   \
    break;     \
   }      \
  }       \
 }       \
 if
 (elm)       \
  RB_COLOR(elm, field) = RB_BLACK;   \
}        \
        \
attr struct type *       \
name##_RB_REMOVE(struct name *head, struct type *elm)   \
{        \
 struct type *child, *parent, *old = elm;   \
 int color;       \
 if (RB_LEFT(elm, field) == NULL)    \
  child = RB_RIGHT(elm, field);    \
 else if (RB_RIGHT(elm, field) == NULL)    \
  child = RB_LEFT(elm, field);    \
 else {        \
  struct type *left;     \
  elm = RB_RIGHT(elm, field);    \
  while ((left = RB_LEFT(elm, field)) != NULL)  \
   elm = left;     \
  child = RB_RIGHT(elm, field);    \
  parent = RB_PARENT(elm, field);    \
  color = RB_COLOR(elm, field);    \
```

```
 if (child)     \
  RB_PARENT(child, field) = parent;  \
 if (parent) {     \
  if (RB_LEFT(parent, field) == elm)  \
   RB_LEFT(parent, field) = child;  \
  else     \
   RB_RIGHT(parent, field) = child; \
  RB_AUGMENT(parent);    \
 } else      \
  RB_ROOT(head)
= child;    \
 if (RB_PARENT(elm, field) == old)   \
  parent = elm;     \
 (elm)->field = (old)->field;    \
 if (RB_PARENT(old, field)) {    \
  if (RB_LEFT(RB_PARENT(old, field), field) == old)\
   RB_LEFT(RB_PARENT(old, field), field) = elm;\
  else     \
   RB_RIGHT(RB_PARENT(old, field), field) = elm;\
  RB_AUGMENT(RB_PARENT(old, field));  \
 } else      \
  RB_ROOT(head) = elm;    \
 RB_PARENT(RB_LEFT(old, field), field) = elm;  \
 if (RB_RIGHT(old, field))    \
  RB_PARENT(RB_RIGHT(old, field), field) = elm; \
 if (parent) {     \
  left = parent;     \
  do {      \
   RB_AUGMENT(left);   \
  } while ((left = RB_PARENT(left, field)) != NULL); \
 }       \
 goto color;      \
}       \
parent = RB_PARENT(elm, field);     \
color = RB_COLOR(elm, field);     \
if (child)      \
 RB_PARENT(child, field) = parent;   \
if (parent) {      \
 if (RB_LEFT(parent, field) == elm)   \
  RB_LEFT(parent, field) = child;   \
 else      \
  RB_RIGHT(parent,
field) = child;  \
 RB_AUGMENT(parent);     \
} else       \
 RB_ROOT(head) = child;     \
color:        \
if (color == RB_BLACK)      \
```

```
 name##_RB_REMOVE_COLOR(head, parent, child);  \
 return (old);       \
}        \
        \
/* Inserts a node into the RB tree */     \
attr struct type *       \
name##_RB_INSERT(struct name *head, struct type *elm)   \
{        \
 struct type *tmp;      \
 struct type *parent = NULL;     \
 int comp = 0;       \
 tmp = RB_ROOT(head);      \
 while (tmp) {       \
  parent = tmp;      \
  comp = (cmp)(elm, parent);    \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }        \
 RB_SET(elm, parent, field);     \
 if (parent != NULL) {      \
  if (comp < 0)      \
   RB_LEFT(parent, field) = elm;   \
  else       \
   RB_RIGHT(parent, field) = elm;   \
  RB_AUGMENT(parent);     \
 } else       \
  RB_ROOT(head) = elm;     \
 name##_RB_INSERT_COLOR(head,
 elm);    \
 return (NULL);       \
}        \
        \
/* Finds the node with the same key as elm */    \
attr struct type *       \
name##_RB_FIND(struct name *head, struct type *elm)   \
{        \
 struct type *tmp = RB_ROOT(head);    \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
```

```
 else       \
  return (tmp);     \
 }        \
 return (NULL);       \
}         \
         \
/* Finds the first node greater than or equal to the search key */ \
attr struct type *       \
name##_RB_NFIND(struct name *head, struct type *elm)   \
{         \
 struct type *tmp = RB_ROOT(head);    \
 struct type *res = NULL;     \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0) {      \
   res = tmp;     \
   tmp = RB_LEFT(tmp, field);   \
  }       \
  else if (comp > 0)     \
   tmp =
 RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }        \
 return (res);       \
}         \
         \
/* ARGSUSED */        \
attr struct type *       \
name##_RB_NEXT(struct type *elm)     \
{         \
 if (RB_RIGHT(elm, field)) {     \
  elm = RB_RIGHT(elm, field);    \
  while (RB_LEFT(elm, field))    \
   elm = RB_LEFT(elm, field);   \
 } else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
       (elm == RB_RIGHT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);   \
  }       \
 }        \
 return (elm);       \
```

```
}       \
        \
/* ARGSUSED */      \
attr struct type *      \
name##_RB_PREV(struct type *elm)    \
{       \
 if (RB_LEFT(elm, field)) {    \
  elm = RB_LEFT(elm, field);   \
  while (RB_RIGHT(elm, field))   \
   elm = RB_RIGHT(elm, field);  \
 }
 else {      \
  if (RB_PARENT(elm, field) &&   \
      (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);  \
  else {      \
   while (RB_PARENT(elm, field) &&  \
       (elm == RB_LEFT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);  \
  }      \
 }       \
 return (elm);      \
}       \
        \
attr struct type *      \
name##_RB_MINMAX(struct name *head, int val)   \
{       \
 struct type *tmp = RB_ROOT(head);   \
 struct type *parent = NULL;    \
 while (tmp) {      \
  parent = tmp;     \
  if (val < 0)     \
   tmp = RB_LEFT(tmp, field);  \
  else      \
   tmp = RB_RIGHT(tmp, field);  \
 }       \
 return (parent);     \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x,
```

```
 y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x)  name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x)  name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head)     \
 for ((x) = RB_MIN(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y)     \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y)    \
 for ((x) = RB_MIN(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE(x, name, head)    \
 for ((x) = RB_MAX(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y)    \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name,
 head, y)   \
 for ((x) = RB_MAX(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#endif /* _SYS_TREE_H_ */
pkgname=linux-headers
pkgver=6.14.2 # Follow the latest Linux stable
_kernver=${pkgver%.*}
pkgrel=0
pkgdesc="Linux system headers"
url="https://kernel.org/"
arch="all" # Headers are architecture specific
license="GPL-2.0-only"
makedepends="perl"
options="!check !dbg !strip !tracedeps !archcheck"
```

source="https://kernel.org/pub/linux/kernel/v6.x/linux-$_kernver.tar.xz
 revert-broken-uapi.patch
 0003-remove-inclusion-of-sysinfo.h-in-kernel.h.patch

1.1063 python-setuptools 80.9.0

1.1063.1 Available under license :

The code contained in this directory was automatically generated using the
following command:

   python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t distutils=setuptools/config/distutils.schema.json

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
(or to the relevant plugin repository)

- https://github.com/abravalheri/validate-pyproject/issues

***

The following files include code from opensource projects
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- `fastjsonschema_exceptions.py`:
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Additionally
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- `__init__.py`
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***

`fastjsonschema`
==========

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`validate-pyproject`
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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 https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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 https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

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1.1064 jctools-core 4.0.5

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<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /jctools-core-4-0-5-6-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1717253512851
Build-Jdk-Spec: 1.8
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: 4.0.5
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: org.jctools.maps;version="4.0.5",org.jctools.util;vers
ion="4.0.5";uses:="sun.misc",org.jctools.queues;version="4.0.5",org.j
ctools.queues.atomic;version="4.0.5";uses:="org.jctools.queues",org.j
ctools.queues.atomic.unpadded;version="4.0.5";uses:="org.jctools.queu
es",org.jctools.queues.unpadded;version="4.0.5";uses:="org.jctools.qu
eues",org.jctools.counters;version="4.0.5"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
/jctools-core-4-0-5-6-jar/META-INF/MANIFEST.MF

1.1065 apk-tools 2.14.9-r2

1.1065.1 Available under license :

Automatically generated by apkbuild-cpan, template 4
Contributor: Valery Kartel <valery.kartel@gmail.com>
Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource

```
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
```

```
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

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```
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
mini_sendmail - accept email on behalf of real sendmail

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```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}
```

```
list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
Contributor: Dhruvin Gandhi <contact@dhru.vin>
Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

```
check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
/* $NetBSD: queue.h,v 1.70 2015/11/02 15:21:23 christos Exp $ */

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*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
```

```
*/

#ifndef _SYS_QUEUE_H_
#define _SYS_QUEUE_H_

/*
* This file defines five types of data structures: singly-linked lists,
* lists, simple queues, tail queues, and circular queues.
*
* A singly-linked list is headed by a single forward pointer. The
* elements are singly linked for minimum space and
 pointer manipulation
* overhead at the expense of O(n) removal for arbitrary elements. New
* elements can be added to the list after an existing element or at the
* head of the list.  Elements being removed from the head of the list
* should use the explicit macro for this purpose for optimum
* efficiency. A singly-linked list may only be traversed in the forward
* direction.  Singly-linked lists are ideal for applications with large
* datasets and few or no removals or for implementing a LIFO queue.
*
* A list is headed by a single forward pointer (or an array of forward
* pointers for a hash table header). The elements are doubly linked
* so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before
* or after an existing element or at the head of the list. A list
* may only be traversed in the forward direction.
*
* A simple queue is headed by a pair of pointers, one the head of the
* list and the
 other to the tail of the list. The elements are singly
* linked to save space, so elements can only be removed from the
* head of the list. New elements can be added to the list after
* an existing element, at the head of the list, or at the end of the
* list. A simple queue may only be traversed in the forward direction.
*
* A tail queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before or
* after an existing element, at the head of the list, or at the end of
* the list. A tail queue may be traversed in either direction.
*
* A circle queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements
 can be added to the list before or after
* an existing element, at the head of the list, or at the end of the list.
```

```
* A circle queue may be traversed in either direction, but has a more
* complex end of list detection.
*
* For details on the use of these macros, see the queue(3) manual page.
*/

/*
* Include the definition of NULL only on NetBSD because sys/null.h
* is not available elsewhere.  This conditional makes the header
* portable and it can simply be dropped verbatim into any system.
* The caveat is that on other systems some other header
* must provide NULL before the macros can be used.
*/
#ifdef __NetBSD__
#include <sys/null.h>
#endif

#if defined(QUEUEDEBUG)
# if defined(_KERNEL)
#  define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
#  include <err.h>
#  define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
* Singly-linked List definitions.
*/
#define SLIST_HEAD(name, type)      \
struct name {       \
 struct type *slh_first; /* first
 element */   \
}

#define SLIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define SLIST_ENTRY(type)      \
struct {       \
 struct type *sle_next; /* next element */   \
}

/*
* Singly-linked List access methods.
*/
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head)  NULL
```

```
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field)     \
 for((var) = (head)->slh_first;     \
     (var) != SLIST_END(head);     \
     (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = SLIST_FIRST((head));    \
     (var) != SLIST_END(head) &&     \
     ((tvar) = SLIST_NEXT((var), field), 1);   \
     (var) = (tvar))

/*
* Singly-linked List functions.
*/
#define SLIST_INIT(head) do {      \
 (head)->slh_first = SLIST_END(head);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do {   \
 (elm)->field.sle_next = (slistelm)->field.sle_next;  \
 (slistelm)->field.sle_next
 = (elm);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do {   \
 (elm)->field.sle_next = (head)->slh_first;   \
 (head)->slh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do {   \
 (slistelm)->field.sle_next =     \
    SLIST_NEXT(SLIST_NEXT((slistelm), field), field);  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do {    \
 (head)->slh_first = (head)->slh_first->field.sle_next;  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE(head, elm, type, field) do {   \
 if ((head)->slh_first == (elm)) {    \
  SLIST_REMOVE_HEAD((head), field);   \
 }       \
 else {       \
  struct type *curelm = (head)->slh_first;  \
  while(curelm->field.sle_next != (elm))   \
```

```
  curelm = curelm->field.sle_next;  \
 curelm->field.sle_next =    \
     curelm->field.sle_next->field.sle_next;  \
 }       \
} while (/*CONSTCOND*/0)


/*
* List definitions.
 */
#define LIST_HEAD(name, type)      \
struct name {       \
 struct type *lh_first; /* first element */   \
}

#define LIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define LIST_ENTRY(type)      \
struct {       \
 struct type *le_next; /* next element */   \
 struct type **le_prev; /* address of previous next element */ \
}

/*
* List access methods.
*/
#define LIST_FIRST(head)  ((head)->lh_first)
#define LIST_END(head)   NULL
#define LIST_EMPTY(head)  ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field)  ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field)     \
 for ((var) = ((head)->lh_first);    \
    (var) != LIST_END(head);     \
    (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = LIST_FIRST((head));    \
    (var) != LIST_END(head) &&     \
    ((tvar) = LIST_NEXT((var), field), 1);   \
    (var) = (tvar))

#define LIST_MOVE(head1, head2) do {     \
 LIST_INIT((head2));      \
 if (!LIST_EMPTY((head1)))
 {     \
  (head2)->lh_first = (head1)->lh_first;   \
```

```
 LIST_INIT((head1));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* List functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)   \
 if ((head)->lh_first &&      \
    (head)->lh_first->field.le_prev != &(head)->lh_first) \
  QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field)     \
 if ((elm)->field.le_next &&     \
    (elm)->field.le_next->field.le_prev !=   \
    &(elm)->field.le_next)     \
  QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm),  \
     __FILE__, __LINE__);    \
 if (*(elm)->field.le_prev != (elm))    \
  QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm),  \
     __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)    \
 (elm)->field.le_next = (void *)1L;    \
 (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm,
 field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do {      \
 (head)->lh_first = LIST_END(head);    \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 if (((elm)->field.le_next = (listelm)->field.le_next) !=  \
    LIST_END(head))      \
  (listelm)->field.le_next->field.le_prev =  \
     &(elm)->field.le_next;    \
 (listelm)->field.le_next = (elm);    \
 (elm)->field.le_prev = &(listelm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
```

```
 (elm)->field.le_prev = (listelm)->field.le_prev;  \
 (elm)->field.le_next = (listelm);    \
 *(listelm)->field.le_prev = (elm);    \
 (listelm)->field.le_prev = &(elm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do {    \
 QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.le_next
 = (head)->lh_first) != LIST_END(head))\
  (head)->lh_first->field.le_prev = &(elm)->field.le_next;\
 (head)->lh_first = (elm);     \
 (elm)->field.le_prev = &(head)->lh_first;   \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do {     \
 QUEUEDEBUG_LIST_OP((elm), field)    \
 if ((elm)->field.le_next != NULL)    \
  (elm)->field.le_next->field.le_prev =    \
      (elm)->field.le_prev;    \
 *(elm)->field.le_prev = (elm)->field.le_next;   \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do {    \
 if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
  (elm2)->field.le_next->field.le_prev =   \
      &(elm2)->field.le_next;    \
 (elm2)->field.le_prev = (elm)->field.le_prev;   \
 *(elm2)->field.le_prev = (elm2);    \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

/*
* Simple queue definitions.
*/
#define SIMPLEQ_HEAD(name, type)     \
struct name {        \
 struct
 type *sqh_first; /* first element */   \
 struct type **sqh_last; /* addr of last next element */  \
}

#define SIMPLEQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type)      \
struct {        \
```

```
 struct type *sqe_next; /* next element */   \
}

/*
* Simple queue access methods.
*/
#define SIMPLEQ_FIRST(head)  ((head)->sqh_first)
#define SIMPLEQ_END(head)  NULL
#define SIMPLEQ_EMPTY(head)  ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)

#define SIMPLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head);     \
     (var) = ((var)->field.sqe_next))

#define SIMPLEQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head) &&    \
     ((next = ((var)->field.sqe_next)), 1);   \
     (var) = (next))

/*
* Simple queue functions.
*/
#define SIMPLEQ_INIT(head) do {      \
 (head)->sqh_first = NULL;     \
 (head)->sqh_last
 = &(head)->sqh_first;    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (head)->sqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.sqe_next = NULL;     \
 *(head)->sqh_last = (elm);     \
 (head)->sqh_last = &(elm)->field.sqe_next;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL)\
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (listelm)->field.sqe_next = (elm);    \
} while (/*CONSTCOND*/0)
```

```
#define SIMPLEQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
  (head)->sqh_last = &(head)->sqh_first;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do {   \
 if
 (((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
    == NULL)       \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->sqh_first == (elm)) {    \
  SIMPLEQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->sqh_first;  \
  while (curelm->field.sqe_next != (elm))   \
   curelm = curelm->field.sqe_next;  \
  if ((curelm->field.sqe_next =    \
   curelm->field.sqe_next->field.sqe_next) == NULL) \
      (head)->sqh_last = &(curelm)->field.sqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do {    \
 if (!SIMPLEQ_EMPTY((head2))) {     \
  *(head1)->sqh_last = (head2)->sqh_first;  \
  (head1)->sqh_last = (head2)->sqh_last;  \
  SIMPLEQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field)     \
 (SIMPLEQ_EMPTY((head)) ?      \
  NULL :       \
        ((struct type
 *)(void *)    \
  ((char *)((head)->sqh_last) - offsetof(struct type, field))))

/*
* Tail queue definitions.
*/
#define _TAILQ_HEAD(name, type, qual)     \
struct name {        \
 qual type *tqh_first;  /* first element */  \
 qual type *qual *tqh_last; /* addr of last next element */ \
```

```
}
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head)    \
 { TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual)    \
struct {        \
 qual type *tqe_next;  /* next element */  \
 qual type *qual *tqe_prev; /* address of previous next element */\
}
#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
* Tail queue access methods.
*/
#define TAILQ_FIRST(head)  ((head)->tqh_first)
#define TAILQ_END(head)   (NULL)
#define TAILQ_NEXT(elm, field)  ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
 (*(((struct headname *)(void *)((head)->tqh_last))->tqh_last))
#define TAILQ_PREV(elm, headname, field) \
 (*(((struct headname
 *)(void *)((elm)->field.tqe_prev))->tqh_last))
#define TAILQ_EMPTY(head)  (TAILQ_FIRST(head) == TAILQ_END(head))


#define TAILQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->tqh_first);    \
    (var) != TAILQ_END(head);    \
    (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->tqh_first);    \
    (var) != TAILQ_END(head) &&    \
    ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field)  \
 for ((var) = TAILQ_LAST((head), headname);   \
    (var) != TAILQ_END(head);    \
    (var) = TAILQ_PREV((var), headname, field))

#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
 for ((var) = TAILQ_LAST((head), headname);   \
    (var) != TAILQ_END(head) &&    \
    ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
```

```
* Tail queue functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head,
 elm, field)  \
 if ((head)->tqh_first &&    \
    (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)  \
 if (*(head)->tqh_last != NULL)    \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_OP(elm, field)    \
 if ((elm)->field.tqe_next &&    \
    (elm)->field.tqe_next->field.tqe_prev !=  \
    &(elm)->field.tqe_next)    \
  QUEUEDEBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
     __FILE__, __LINE__);   \
 if (*(elm)->field.tqe_prev != (elm))   \
  QUEUEDEBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)  \
 if ((elm)->field.tqe_next == NULL &&   \
    (head)->tqh_last != &(elm)->field.tqe_next)  \
  QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d",\
     (head), (elm), __FILE__,
 __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)   \
 (elm)->field.tqe_next = (void *)1L;   \
 (elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do {     \
 (head)->tqh_first = TAILQ_END(head);   \
 (head)->tqh_last = &(head)->tqh_first;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do {  \
 QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head))\
  (head)->tqh_first->field.tqe_prev =  \
```

```
    &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (head)->tqh_first = (elm);     \
 (elm)->field.tqe_prev = &(head)->tqh_first;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head,
 elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field)  \
 (elm)->field.tqe_next = TAILQ_END(head);   \
 (elm)->field.tqe_prev = (head)->tqh_last;   \
 *(head)->tqh_last = (elm);     \
 (head)->tqh_last = &(elm)->field.tqe_next;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 if (((elm)->field.tqe_next = (listelm)->field.tqe_next) !=  \
    TAILQ_END(head))      \
  (elm)->field.tqe_next->field.tqe_prev =   \
     &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (listelm)->field.tqe_next = (elm);    \
 (elm)->field.tqe_prev = &(listelm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 (elm)->field.tqe_prev = (listelm)->field.tqe_prev;  \
 (elm)->field.tqe_next = (listelm);    \
 *(listelm)->field.tqe_prev = (elm);    \
 (listelm)->field.tqe_prev
 = &(elm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_TAILQ_PREREMOVE((head), (elm), field)  \
 QUEUEDEBUG_TAILQ_OP((elm), field)    \
 if (((elm)->field.tqe_next) != TAILQ_END(head))   \
  (elm)->field.tqe_next->field.tqe_prev =   \
     (elm)->field.tqe_prev;    \
 else       \
  (head)->tqh_last = (elm)->field.tqe_prev;  \
 *(elm)->field.tqe_prev = (elm)->field.tqe_next;   \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm), field);   \
} while (/*CONSTCOND*/0)
```

```
#define TAILQ_REPLACE(head, elm, elm2, field) do {   \
      if (((elm2)->field.tqe_next = (elm)->field.tqe_next) !=  \
    TAILQ_END(head))        \
            (elm2)->field.tqe_next->field.tqe_prev =  \
               &(elm2)->field.tqe_next;    \
      else       \
            (head)->tqh_last = &(elm2)->field.tqe_next;  \
      (elm2)->field.tqe_prev = (elm)->field.tqe_prev;   \
      *(elm2)->field.tqe_prev = (elm2);    \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm),
 field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do {    \
 if (!TAILQ_EMPTY(head2)) {     \
  *(head1)->tqh_last = (head2)->tqh_first;  \
  (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
  (head1)->tqh_last = (head2)->tqh_last;   \
  TAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* Singly-linked Tail queue declarations.
*/
#define STAILQ_HEAD(name, type)      \
struct name {        \
 struct type *stqh_first; /* first element */  \
 struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type)      \
struct {        \
 struct type *stqe_next; /* next element */   \
}

/*
* Singly-linked Tail queue access methods.
*/
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head)
```

```
 == STAILQ_END(head))

/*
* Singly-linked Tail queue functions.
*/
#define STAILQ_INIT(head) do {      \
 (head)->stqh_first = NULL;     \
 (head)->stqh_last = &(head)->stqh_first;    \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (head)->stqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.stqe_next = NULL;     \
 *(head)->stqh_last = (elm);     \
 (head)->stqh_last = &(elm)->field.stqe_next;   \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL)\
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (listelm)->field.stqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->stqh_first = (head)->stqh_first->field.stqe_next)
 == NULL) \
  (head)->stqh_last = &(head)->stqh_first;   \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->stqh_first == (elm)) {    \
  STAILQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->stqh_first;  \
  while (curelm->field.stqe_next != (elm))   \
   curelm = curelm->field.stqe_next;  \
  if ((curelm->field.stqe_next =    \
   curelm->field.stqe_next->field.stqe_next) == NULL) \
      (head)->stqh_last = &(curelm)->field.stqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_FOREACH(var, head, field)    \
```

```
 for ((var) = ((head)->stqh_first);    \
  (var);       \
  (var) = ((var)->field.stqe_next))

#define STAILQ_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = STAILQ_FIRST((head));    \
     (var) && ((tvar) = STAILQ_NEXT((var), field), 1);  \
     (var) = (tvar))

#define STAILQ_CONCAT(head1, head2) do {    \
 if (!STAILQ_EMPTY((head2))) {     \
  *(head1)->stqh_last
 = (head2)->stqh_first;  \
  (head1)->stqh_last = (head2)->stqh_last;  \
  STAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_LAST(head, type, field)     \
 (STAILQ_EMPTY((head)) ?      \
  NULL :       \
        ((struct type *)(void *)    \
  ((char *)((head)->stqh_last) - offsetof(struct type, field))))


#ifndef _KERNEL
/*
* Circular queue definitions. Do not use. We still keep the macros
* for compatibility but because of pointer aliasing issues their use
* is discouraged!
*/

/*
* __launder_type():  We use this ugly hack to work around the the compiler
* noticing that two types may not alias each other and elide tests in code.
* We hit this in the CIRCLEQ macros when comparing 'struct name *' and
* 'struct type *' (see CIRCLEQ_HEAD()).  Modern compilers (such as GCC
* 4.8) declare these comparisons as always false, causing the code to
* not run as designed.
*
* This hack is only to be used for comparisons and thus can be fully const.
 * Do not use for assignment.
*
* If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
* this by changing the head/tail sentinal values, but see the note above
* this one.
*/
static __inline const void * __launder_type(const void *);
```

```
static __inline const void *
__launder_type(const void *__x)
{
 __asm __volatile("" : "+r" (__x));
 return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)    \
 if ((head)->cqh_first != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \
       __FILE__, __LINE__);    \
 if ((head)->cqh_last != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
       __FILE__, __LINE__);
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_last != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ
 elm last %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 } else {       \
  if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 }       \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_first != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 } else {       \
  if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 }
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)   \
 (elm)->field.cqe_next = (void *)1L;    \
 (elm)->field.cqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type)     \
struct name {        \
```

```
 struct type *cqh_first;  /*
 first element */  \
 struct type *cqh_last;  /* last element */  \
}

#define CIRCLEQ_HEAD_INITIALIZER(head)     \
 { CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type)      \
struct {        \
 struct type *cqe_next;  /* next element */  \
 struct type *cqe_prev;  /* previous element */  \
}

/*
* Circular queue functions.
*/
#define CIRCLEQ_INIT(head) do {      \
 (head)->cqh_first = CIRCLEQ_END(head);    \
 (head)->cqh_last = CIRCLEQ_END(head);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm)->field.cqe_next;  \
 (elm)->field.cqe_prev = (listelm);    \
 if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm);    \
 else       \
  (listelm)->field.cqe_next->field.cqe_prev = (elm); \
 (listelm)->field.cqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_BEFORE(head,
 listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm);    \
 (elm)->field.cqe_prev = (listelm)->field.cqe_prev;  \
 if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm);    \
 else       \
  (listelm)->field.cqe_prev->field.cqe_next = (elm); \
 (listelm)->field.cqe_prev = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do {   \
```

```
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next = (head)->cqh_first;   \
 (elm)->field.cqe_prev = CIRCLEQ_END(head);   \
 if ((head)->cqh_last == CIRCLEQ_ENDC(head))   \
  (head)->cqh_last = (elm);    \
 else       \
  (head)->cqh_first->field.cqe_prev = (elm);  \
 (head)->cqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next
 = CIRCLEQ_END(head);   \
 (elm)->field.cqe_prev = (head)->cqh_last;   \
 if ((head)->cqh_first == CIRCLEQ_ENDC(head))   \
  (head)->cqh_first = (elm);    \
 else       \
  (head)->cqh_last->field.cqe_next = (elm);  \
 (head)->cqh_last = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (elm), field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm)->field.cqe_prev;  \
 else       \
  (elm)->field.cqe_next->field.cqe_prev =   \
     (elm)->field.cqe_prev;    \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm)->field.cqe_next;  \
 else       \
  (elm)->field.cqe_prev->field.cqe_next =   \
     (elm)->field.cqe_next;    \
 QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->cqh_first);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var)
 = ((var)->field.cqe_next))

#define CIRCLEQ_FOREACH_REVERSE(var, head, field)   \
 for ((var) = ((head)->cqh_last);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var) = ((var)->field.cqe_prev))
```

```
/*
* Circular queue access methods.
*/
#define CIRCLEQ_FIRST(head)  ((head)->cqh_first)
#define CIRCLEQ_LAST(head)  ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head)  (__launder_type(head))
/* For assignments */
#define CIRCLEQ_END(head)  ((void *)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)
#define CIRCLEQ_EMPTY(head)      \
   (CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

#define CIRCLEQ_LOOP_NEXT(head, elm, field)    \
 (((elm)->field.cqe_next == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_first)     \
     : (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field)    \
 (((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_last)     \
     :
 (elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
#ifndef _SYS_CDEFS_H_
#define _SYS_CDEFS_H_

#warning usage of non-standard #include <sys/cdefs.h> is deprecated

#undef __P
#undef __PMT

#define __P(args) args
#define __PMT(args) args

#define __CONCAT(x,y) x ## y
#define __STRING(x) #x

#ifdef  __cplusplus
# define __BEGIN_DECLS extern "C" {
# define __END_DECLS }
#else
# define __BEGIN_DECLS
# define __END_DECLS
#endif
```

```
#if defined(__GNUC__) && !defined(__cplusplus)
# define __THROW __attribute__ ((__nothrow__))
# define __NTH(fct) __attribute__ ((__nothrow__)) fct
#else
# define __THROW
# define __NTH(fct)     fct
#endif

#endif /* _SYS_CDEFS_H_ */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
GNU GENERAL PUBLIC LICENSE
```

Version 2, June 1991

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```
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/* Modified by Void Linux. */
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*/

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y)      \
 ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) ||   \
  (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
#endif

/*
* This file defines data structures for different types of trees:
* splay trees and red-black trees.
*
* A splay tree is a self-organizing
 data structure.  Every operation
* on the tree causes a splay to happen.  The splay moves the requested
* node to the root of the tree and partly rebalances it.
*
* This has the benefit that request locality causes faster lookups as
* the requested nodes move to the top of the tree.  On the other hand,
* every lookup causes memory writes.
*
* The Balance Theorem bounds the total access time for m operations
* and n inserts on an initially empty tree as O((m + n)lg n).  The
* amortized cost for a sequence of m accesses to a splay tree is O(lg n);
*
```

```
* A red-black tree is a binary search tree with the node color as an
* extra attribute.  It fulfills a set of conditions:
* - every search path from the root to a leaf consists of the
*   same number of black nodes,
* - each red node (except for the root) has a black parent,
* - each leaf node is black.
*
* Every operation on a red-black tree is bounded as O(lg n).
* The maximum height of a red-black tree is 2lg (n+1).
 */

#define SPLAY_HEAD(name, type)      \
struct name {       \
 struct type *sph_root; /* root of the tree */   \
}

#define SPLAY_INITIALIZER(root)     \
 { NULL }

#define SPLAY_INIT(root) do {      \
 (root)->sph_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type)      \
struct {       \
 struct type *spe_left; /* left element */   \
 struct type *spe_right; /* right element */   \
}

#define SPLAY_LEFT(elm, field)  (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field)  (elm)->field.spe_right
#define SPLAY_ROOT(head)  (head)->sph_root
#define SPLAY_EMPTY(head)  (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do {   \
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do {   \
 SPLAY_RIGHT((head)->sph_root,
 field) = SPLAY_LEFT(tmp, field); \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)
```

```
#define SPLAY_LINKLEFT(head, tmp, field) do {    \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);  \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do {    \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do {  \
 SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
 SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field);\
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
 SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */

#define
 SPLAY_PROTOTYPE(name, type, field, cmp)    \
void name##_SPLAY(struct name *, struct type *);   \
void name##_SPLAY_MINMAX(struct name *, int);    \
struct type *name##_SPLAY_INSERT(struct name *, struct type *);  \
struct type *name##_SPLAY_REMOVE(struct name *, struct type *);  \
        \
/* Finds the node with the same key as elm */    \
static __inline struct type *      \
name##_SPLAY_FIND(struct name *head, struct type *elm)   \
{        \
 if (SPLAY_EMPTY(head))      \
  return(NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0)    \
  return (head->sph_root);    \
 return (NULL);       \
}        \
        \
static __inline _sys_tree_h_unused struct type *   \
name##_SPLAY_NEXT(struct name *head, struct type *elm)   \
{        \
 name##_SPLAY(head, elm);     \
 if (SPLAY_RIGHT(elm, field) != NULL) {    \
  elm = SPLAY_RIGHT(elm, field);    \
  while (SPLAY_LEFT(elm, field) != NULL) {  \
   elm = SPLAY_LEFT(elm, field);   \
```

```
 }      \
 }
 else       \
  elm = NULL;      \
 return (elm);      \
}       \
       \
static _sys_tree_h_unused __inline struct type *   \
name##_SPLAY_MIN_MAX(struct name *head, int val)   \
{       \
 name##_SPLAY_MINMAX(head, val);     \
      return (SPLAY_ROOT(head));     \
}

/* Main splay operation.
* Moves node close to the key of elm to top
*/
#define SPLAY_GENERATE(name, type, field, cmp)    \
struct type *       \
name##_SPLAY_INSERT(struct name *head, struct type *elm)  \
{       \
  if (SPLAY_EMPTY(head)) {      \
    SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
  } else {       \
    int __comp;      \
    name##_SPLAY(head, elm);     \
    __comp = (cmp)(elm, (head)->sph_root);   \
    if(__comp < 0) {      \
     SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
     SPLAY_RIGHT(elm, field) = (head)->sph_root;  \
     SPLAY_LEFT((head)->sph_root, field) = NULL;  \
    } else if (__comp > 0) {     \
     SPLAY_RIGHT(elm,
 field) = SPLAY_RIGHT((head)->sph_root, field);\
     SPLAY_LEFT(elm, field) = (head)->sph_root;  \
     SPLAY_RIGHT((head)->sph_root, field) = NULL; \
    } else      \
     return ((head)->sph_root);    \
  }       \
  (head)->sph_root = (elm);      \
  return (NULL);       \
}       \
       \
struct type *       \
name##_SPLAY_REMOVE(struct name *head, struct type *elm)  \
{       \
 struct type *__tmp;      \
 if (SPLAY_EMPTY(head))      \
```

```
 return (NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0) {   \
  if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
   (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
  } else {      \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
   name##_SPLAY(head, elm);   \
   SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
  }       \
  return (elm);      \
 }       \
 return (NULL);       \
}        \
        \
void         \
name##_SPLAY(struct
 name *head, struct type *elm)   \
{        \
 struct type __node, *__left, *__right, *__tmp;   \
 int __comp;       \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) {  \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) < 0){   \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) > 0){   \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
```

```
 }       \
 SPLAY_ASSEMBLE(head,
 &__node, __left, __right, field);  \
}        \
        \
/* Splay with either the minimum or the maximum element   \
* Used to find minimum or maximum element in tree.   \
*/        \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{        \
 struct type __node, *__left, *__right, *__tmp;   \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while (1) {       \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if (__comp < 0){    \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if (__comp > 0) {    \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root,
 field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
 }       \
 SPLAY_ASSEMBLE(head, &__node, __left, __right, field);  \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y)  name##_SPLAY_FIND(x, y)
```

```
#define SPLAY_NEXT(name, x, y)  name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head)    \
 for ((x) = SPLAY_MIN(name, head);   \
     (x) != NULL;     \
     (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type)     \
struct name {       \
 struct type *rbh_root; /* root of the tree */   \
}

#define RB_INITIALIZER(root)     \
 {
 NULL }

#define RB_INIT(root) do {      \
 (root)->rbh_root = NULL;    \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED  1
#define RB_ENTRY(type)      \
struct {       \
 struct type *rbe_left;  /* left element */  \
 struct type *rbe_right;  /* right element */  \
 struct type *rbe_parent; /* parent element */  \
 int rbe_color;   /* node color */  \
}

#define RB_LEFT(elm, field)  (elm)->field.rbe_left
#define RB_RIGHT(elm, field)  (elm)->field.rbe_right
#define RB_PARENT(elm, field)  (elm)->field.rbe_parent
#define RB_COLOR(elm, field)  (elm)->field.rbe_color
#define RB_ROOT(head)   (head)->rbh_root
#define RB_EMPTY(head)   (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do {     \
 RB_PARENT(elm, field) = parent;     \
 RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL;  \
 RB_COLOR(elm, field) = RB_RED;     \
} while (/*CONSTCOND*/ 0)
```

```
#define RB_SET_BLACKRED(black, red, field) do {    \
 RB_COLOR(black, field) = RB_BLACK;    \
 RB_COLOR(red, field)
 = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do {   \
 (tmp) = RB_RIGHT(elm, field);     \
 if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
  RB_PARENT(RB_LEFT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else      \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
  (head)->rbh_root = (tmp);    \
 RB_LEFT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do {   \
 (tmp) = RB_LEFT(elm, field);     \
 if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field))
 != NULL) { \
  RB_PARENT(RB_RIGHT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else      \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
  (head)->rbh_root = (tmp);    \
 RB_RIGHT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
```

```
 RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp)    \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp)   \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr)  \
attr void name##_RB_INSERT_COLOR(struct name *, struct
 type *);  \
attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *);\
attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
attr struct type *name##_RB_INSERT(struct name *, struct type *); \
attr struct type *name##_RB_FIND(struct name *, struct type *);  \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *);   \
attr struct type *name##_RB_PREV(struct type *);   \
attr struct type *name##_RB_MINMAX(struct name *, int);   \
        \

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp)    \
 RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp)   \
 RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr)  \
attr void       \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm)  \
{       \
 struct type
 *parent, *gparent, *tmp;    \
 while ((parent = RB_PARENT(elm, field)) != NULL &&  \
     RB_COLOR(parent, field) == RB_RED) {   \
  gparent = RB_PARENT(parent, field);   \
  if (parent == RB_LEFT(gparent, field)) {  \
   tmp = RB_RIGHT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_RIGHT(parent, field) == elm) {  \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = parent;    \
```

```
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_RIGHT(head, gparent, tmp, field); \
  } else {      \
   tmp = RB_LEFT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_LEFT(parent, field) == elm)
  {  \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_LEFT(head, gparent, tmp, field); \
  }       \
 }        \
 RB_COLOR(head->rbh_root, field) = RB_BLACK;   \
}         \
        \
attr void        \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{         \
 struct type *tmp;      \
 while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
     elm != RB_ROOT(head)) {     \
  if (RB_LEFT(parent, field) == elm) {    \
   tmp = RB_RIGHT(parent, field);    \
   if (RB_COLOR(tmp, field) == RB_RED) {  \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = RB_RIGHT(parent, field);  \
   }      \
   if ((RB_LEFT(tmp, field) == NULL ||  \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
       (RB_RIGHT(tmp, field) == NULL ||  \
       RB_COLOR(RB_RIGHT(tmp,
 field), field) == RB_BLACK)) {\
    RB_COLOR(tmp, field) = RB_RED;  \
    elm = parent;    \
    parent = RB_PARENT(elm, field);  \
```

```
 } else {     \
  if (RB_RIGHT(tmp, field) == NULL || \
      RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
   struct type *oleft;  \
   if ((oleft = RB_LEFT(tmp, field)) \
       != NULL)   \
    RB_COLOR(oleft, field) = RB_BLACK;\
   RB_COLOR(tmp, field) = RB_RED; \
   RB_ROTATE_RIGHT(head, tmp, oleft, field);\
   tmp = RB_RIGHT(parent, field); \
  }     \
  RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
  RB_COLOR(parent, field) = RB_BLACK; \
  if (RB_RIGHT(tmp, field))  \
   RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
  RB_ROTATE_LEFT(head, parent, tmp, field);\
  elm = RB_ROOT(head);   \
  break;     \
 }      \
 } else {      \
  tmp = RB_LEFT(parent, field);   \
  if (RB_COLOR(tmp, field) == RB_RED) {  \
   RB_SET_BLACKRED(tmp, parent, field); \
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   tmp
= RB_LEFT(parent, field);  \
  }      \
  if ((RB_LEFT(tmp, field) == NULL ||  \
      RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
      (RB_RIGHT(tmp, field) == NULL ||  \
      RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
   RB_COLOR(tmp, field) = RB_RED;  \
   elm = parent;    \
   parent = RB_PARENT(elm, field);  \
  } else {     \
   if (RB_LEFT(tmp, field) == NULL || \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
    struct type *oright;  \
    if ((oright = RB_RIGHT(tmp, field)) \
        != NULL)   \
     RB_COLOR(oright, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_LEFT(head, tmp, oright, field);\
    tmp = RB_LEFT(parent, field); \
   }     \
   RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
   RB_COLOR(parent, field) = RB_BLACK; \
   if (RB_LEFT(tmp, field))  \
```

```
    RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   elm = RB_ROOT(head);   \
   break;     \
  }      \
 }       \
}        \
if
(elm)       \
 RB_COLOR(elm, field) = RB_BLACK;   \
}        \
       \
attr struct type *       \
name##_RB_REMOVE(struct name *head, struct type *elm)   \
{        \
 struct type *child, *parent, *old = elm;   \
 int color;       \
 if (RB_LEFT(elm, field) == NULL)    \
  child = RB_RIGHT(elm, field);    \
 else if (RB_RIGHT(elm, field) == NULL)    \
  child = RB_LEFT(elm, field);    \
 else {       \
  struct type *left;     \
  elm = RB_RIGHT(elm, field);    \
  while ((left = RB_LEFT(elm, field)) != NULL)  \
   elm = left;     \
  child = RB_RIGHT(elm, field);    \
  parent = RB_PARENT(elm, field);    \
  color = RB_COLOR(elm, field);    \
  if (child)      \
   RB_PARENT(child, field) = parent;  \
  if (parent) {      \
   if (RB_LEFT(parent, field) == elm)  \
    RB_LEFT(parent, field) = child;  \
   else      \
    RB_RIGHT(parent, field) = child; \
   RB_AUGMENT(parent);    \
  } else       \
   RB_ROOT(head)
 = child;    \
  if (RB_PARENT(elm, field) == old)   \
   parent = elm;     \
  (elm)->field = (old)->field;    \
  if (RB_PARENT(old, field)) {    \
   if (RB_LEFT(RB_PARENT(old, field), field) == old)\
    RB_LEFT(RB_PARENT(old, field), field) = elm;\
   else      \
    RB_RIGHT(RB_PARENT(old, field), field) = elm;\
```

```
  RB_AUGMENT(RB_PARENT(old, field));  \
 } else       \
  RB_ROOT(head) = elm;    \
 RB_PARENT(RB_LEFT(old, field), field) = elm;  \
 if (RB_RIGHT(old, field))    \
  RB_PARENT(RB_RIGHT(old, field), field) = elm; \
 if (parent) {      \
  left = parent;     \
  do {      \
   RB_AUGMENT(left);   \
  } while ((left = RB_PARENT(left, field)) != NULL); \
 }       \
 goto color;      \
}        \
 parent = RB_PARENT(elm, field);     \
 color = RB_COLOR(elm, field);     \
 if (child)       \
  RB_PARENT(child, field) = parent;   \
 if (parent) {       \
  if (RB_LEFT(parent, field) == elm)   \
   RB_LEFT(parent, field) = child;   \
  else       \
   RB_RIGHT(parent,
 field) = child;  \
  RB_AUGMENT(parent);     \
 } else       \
  RB_ROOT(head) = child;     \
color:        \
 if (color == RB_BLACK)      \
  name##_RB_REMOVE_COLOR(head, parent, child);  \
 return (old);       \
}        \
        \
/* Inserts a node into the RB tree */     \
attr struct type *       \
name##_RB_INSERT(struct name *head, struct type *elm)   \
{        \
 struct type *tmp;      \
 struct type *parent = NULL;     \
 int comp = 0;       \
 tmp = RB_ROOT(head);      \
 while (tmp) {       \
  parent = tmp;      \
  comp = (cmp)(elm, parent);    \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
```

```
 else       \
  return (tmp);     \
 }        \
 RB_SET(elm, parent, field);     \
 if (parent != NULL) {      \
  if (comp < 0)      \
   RB_LEFT(parent, field) = elm;   \
  else       \
   RB_RIGHT(parent, field) = elm;   \
  RB_AUGMENT(parent);     \
 } else       \
  RB_ROOT(head) = elm;     \
 name##_RB_INSERT_COLOR(head,
 elm);    \
 return (NULL);       \
}        \
        \
/* Finds the node with the same key as elm */    \
attr struct type *       \
name##_RB_FIND(struct name *head, struct type *elm)   \
{        \
 struct type *tmp = RB_ROOT(head);    \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }        \
 return (NULL);       \
}        \
        \
/* Finds the first node greater than or equal to the search key */ \
attr struct type *       \
name##_RB_NFIND(struct name *head, struct type *elm)   \
{        \
 struct type *tmp = RB_ROOT(head);    \
 struct type *res = NULL;     \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0) {      \
   res = tmp;     \
   tmp = RB_LEFT(tmp, field);   \
  }       \
```

```
 else if (comp > 0)     \
  tmp =
 RB_RIGHT(tmp, field);   \
 else       \
  return (tmp);     \
 }       \
 return (res);       \
}        \
        \
/* ARGSUSED */       \
attr struct type *       \
name##_RB_NEXT(struct type *elm)     \
{        \
 if (RB_RIGHT(elm, field)) {     \
  elm = RB_RIGHT(elm, field);    \
  while (RB_LEFT(elm, field))    \
   elm = RB_LEFT(elm, field);   \
 } else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
       (elm == RB_RIGHT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);   \
  }       \
 }       \
 return (elm);       \
}        \
        \
/* ARGSUSED */       \
attr struct type *       \
name##_RB_PREV(struct type *elm)     \
{        \
 if (RB_LEFT(elm, field)) {     \
  elm = RB_LEFT(elm, field);    \
  while (RB_RIGHT(elm, field))    \
   elm = RB_RIGHT(elm, field);   \
 }
 else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
       (elm == RB_LEFT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
```

```
   elm = RB_PARENT(elm, field);   \
  }       \
 }       \
 return (elm);       \
}        \
        \
attr struct type *       \
name##_RB_MINMAX(struct name *head, int val)    \
{        \
 struct type *tmp = RB_ROOT(head);    \
 struct type *parent = NULL;     \
 while (tmp) {       \
  parent = tmp;      \
  if (val < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else       \
   tmp = RB_RIGHT(tmp, field);   \
 }       \
 return (parent);      \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x,
 y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x)  name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x)  name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head)     \
 for ((x) = RB_MIN(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y)     \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y)    \
 for ((x) = RB_MIN(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))
```

```
#define RB_FOREACH_REVERSE(x, name, head)    \
 for ((x) = RB_MAX(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y)    \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name,
 head, y)   \
 for ((x) = RB_MAX(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#endif /* _SYS_TREE_H_ */
```

1.1066 alpine-base 3.22.0-r0

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bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
/* $NetBSD: queue.h,v 1.70 2015/11/02 15:21:23 christos Exp $ */

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*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
*/

#ifndef _SYS_QUEUE_H_
#define _SYS_QUEUE_H_

/*
* This file defines five types of data structures: singly-linked lists,
* lists, simple queues, tail queues, and circular queues.
*
* A singly-linked list is headed by a single forward pointer. The
* elements are singly linked for minimum space and

pointer manipulation
* overhead at the expense of O(n) removal for arbitrary elements. New
* elements can be added to the list after an existing element or at the
* head of the list. Elements being removed from the head of the list
* should use the explicit macro for this purpose for optimum
* efficiency. A singly-linked list may only be traversed in the forward
* direction. Singly-linked lists are ideal for applications with large
* datasets and few or no removals or for implementing a LIFO queue.
*
* A list is headed by a single forward pointer (or an array of forward
* pointers for a hash table header). The elements are doubly linked
* so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before
* or after an existing element or at the head of the list. A list
* may only be traversed in the forward direction.
*
* A simple queue is headed by a pair of pointers, one the head of the
* list and the
other to the tail of the list. The elements are singly
* linked to save space, so elements can only be removed from the
* head of the list. New elements can be added to the list after
* an existing element, at the head of the list, or at the end of the
* list. A simple queue may only be traversed in the forward direction.
*
* A tail queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before or
* after an existing element, at the head of the list, or at the end of
* the list. A tail queue may be traversed in either direction.
*
* A circle queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements
can be added to the list before or after
* an existing element, at the head of the list, or at the end of the list.
* A circle queue may be traversed in either direction, but has a more
* complex end of list detection.
*
* For details on the use of these macros, see the queue(3) manual page.
*/

/*
* Include the definition of NULL only on NetBSD because sys/null.h
* is not available elsewhere. This conditional makes the header
* portable and it can simply be dropped verbatim into any system.
* The caveat is that on other systems some other header

```
* must provide NULL before the macros can be used.
*/
#ifdef __NetBSD__
#include <sys/null.h>
#endif

#if defined(QUEUEDEBUG)
# if defined(_KERNEL)
#  define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
#  include <err.h>
#  define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
* Singly-linked List definitions.
*/
#define SLIST_HEAD(name, type)      \
struct name {       \
 struct type *slh_first; /* first
 element */   \
}

#define SLIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define SLIST_ENTRY(type)      \
struct {       \
 struct type *sle_next; /* next element */   \
}

/*
* Singly-linked List access methods.
*/
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head)  NULL
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field)     \
 for((var) = (head)->slh_first;     \
    (var) != SLIST_END(head);     \
    (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = SLIST_FIRST((head));    \
    (var) != SLIST_END(head) &&     \
```

```
    ((tvar) = SLIST_NEXT((var), field), 1);   \
    (var) = (tvar))

/*
* Singly-linked List functions.
*/
#define SLIST_INIT(head) do {      \
 (head)->slh_first = SLIST_END(head);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do {   \
 (elm)->field.sle_next = (slistelm)->field.sle_next;  \
 (slistelm)->field.sle_next
 = (elm);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do {   \
 (elm)->field.sle_next = (head)->slh_first;   \
 (head)->slh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do {   \
 (slistelm)->field.sle_next =     \
    SLIST_NEXT(SLIST_NEXT((slistelm), field), field);  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do {    \
 (head)->slh_first = (head)->slh_first->field.sle_next;  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE(head, elm, type, field) do {   \
 if ((head)->slh_first == (elm)) {    \
  SLIST_REMOVE_HEAD((head), field);   \
 }       \
 else {       \
  struct type *curelm = (head)->slh_first;  \
  while(curelm->field.sle_next != (elm))   \
   curelm = curelm->field.sle_next;  \
  curelm->field.sle_next =    \
     curelm->field.sle_next->field.sle_next;  \
 }       \
} while (/*CONSTCOND*/0)



/*
* List definitions.
 */
#define LIST_HEAD(name, type)      \
```

```
struct name {       \
 struct type *lh_first; /* first element */   \
}

#define LIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define LIST_ENTRY(type)      \
struct {        \
 struct type *le_next; /* next element */   \
 struct type **le_prev; /* address of previous next element */ \
}

/*
* List access methods.
*/
#define LIST_FIRST(head)  ((head)->lh_first)
#define LIST_END(head)   NULL
#define LIST_EMPTY(head)  ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field)  ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field)     \
 for ((var) = ((head)->lh_first);    \
     (var) != LIST_END(head);     \
     (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = LIST_FIRST((head));    \
     (var) != LIST_END(head) &&     \
     ((tvar) = LIST_NEXT((var), field), 1);   \
     (var) = (tvar))

#define LIST_MOVE(head1, head2) do {     \
 LIST_INIT((head2));      \
 if (!LIST_EMPTY((head1)))
 {     \
  (head2)->lh_first = (head1)->lh_first;   \
  LIST_INIT((head1));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* List functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)   \
 if ((head)->lh_first &&      \
     (head)->lh_first->field.le_prev != &(head)->lh_first) \
```

```
  QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field)     \
 if ((elm)->field.le_next &&     \
     (elm)->field.le_next->field.le_prev !=   \
     &(elm)->field.le_next)     \
  QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm),  \
      __FILE__, __LINE__);    \
 if (*(elm)->field.le_prev != (elm))    \
  QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm),  \
      __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)    \
 (elm)->field.le_next = (void *)1L;    \
 (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm,
 field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do {      \
 (head)->lh_first = LIST_END(head);    \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 if (((elm)->field.le_next = (listelm)->field.le_next) !=  \
     LIST_END(head))      \
  (listelm)->field.le_next->field.le_prev =  \
      &(elm)->field.le_next;    \
 (listelm)->field.le_next = (elm);    \
 (elm)->field.le_prev = &(listelm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 (elm)->field.le_prev = (listelm)->field.le_prev;  \
 (elm)->field.le_next = (listelm);    \
 *(listelm)->field.le_prev = (elm);    \
 (listelm)->field.le_prev = &(elm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do {    \
 QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.le_next
 = (head)->lh_first) != LIST_END(head))\
  (head)->lh_first->field.le_prev = &(elm)->field.le_next;\
```

```
 (head)->lh_first = (elm);     \
 (elm)->field.le_prev = &(head)->lh_first;   \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do {     \
 QUEUEDEBUG_LIST_OP((elm), field)    \
 if ((elm)->field.le_next != NULL)    \
  (elm)->field.le_next->field.le_prev =    \
      (elm)->field.le_prev;    \
 *(elm)->field.le_prev = (elm)->field.le_next;   \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do {    \
 if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
  (elm2)->field.le_next->field.le_prev =   \
      &(elm2)->field.le_next;    \
 (elm2)->field.le_prev = (elm)->field.le_prev;   \
 *(elm2)->field.le_prev = (elm2);    \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

/*
* Simple queue definitions.
*/
#define SIMPLEQ_HEAD(name, type)     \
struct name {        \
 struct
 type *sqh_first; /* first element */   \
 struct type **sqh_last; /* addr of last next element */  \
}

#define SIMPLEQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type)      \
struct {        \
 struct type *sqe_next; /* next element */   \
}

/*
* Simple queue access methods.
*/
#define SIMPLEQ_FIRST(head)  ((head)->sqh_first)
#define SIMPLEQ_END(head)  NULL
#define SIMPLEQ_EMPTY(head)  ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)
```

```
#define SIMPLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head);     \
     (var) = ((var)->field.sqe_next))

#define SIMPLEQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head) &&    \
     ((next = ((var)->field.sqe_next)), 1);   \
     (var) = (next))

/*
* Simple queue functions.
*/
#define SIMPLEQ_INIT(head) do {      \
 (head)->sqh_first = NULL;     \
 (head)->sqh_last
 = &(head)->sqh_first;    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (head)->sqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.sqe_next = NULL;     \
 *(head)->sqh_last = (elm);     \
 (head)->sqh_last = &(elm)->field.sqe_next;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL)\
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (listelm)->field.sqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
  (head)->sqh_last = &(head)->sqh_first;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do {   \
 if
 (((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
     == NULL)       \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
```

```
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->sqh_first == (elm)) {    \
  SIMPLEQ_REMOVE_HEAD((head), field);   \
 } else {      \
  struct type *curelm = (head)->sqh_first;  \
  while (curelm->field.sqe_next != (elm))   \
   curelm = curelm->field.sqe_next;  \
  if ((curelm->field.sqe_next =    \
   curelm->field.sqe_next->field.sqe_next) == NULL) \
      (head)->sqh_last = &(curelm)->field.sqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do {    \
 if (!SIMPLEQ_EMPTY((head2))) {     \
  *(head1)->sqh_last = (head2)->sqh_first;  \
  (head1)->sqh_last = (head2)->sqh_last;  \
  SIMPLEQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field)     \
 (SIMPLEQ_EMPTY((head)) ?      \
  NULL :       \
       ((struct type
 *)(void *)    \
  ((char *)((head)->sqh_last) - offsetof(struct type, field))))

/*
* Tail queue definitions.
*/
#define _TAILQ_HEAD(name, type, qual)     \
struct name {        \
 qual type *tqh_first;  /* first element */  \
 qual type *qual *tqh_last; /* addr of last next element */ \
}
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head)     \
 { TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual)     \
struct {        \
 qual type *tqe_next;  /* next element */  \
 qual type *qual *tqe_prev; /* address of previous next element */\
}
```

```
#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
* Tail queue access methods.
*/
#define TAILQ_FIRST(head)  ((head)->tqh_first)
#define TAILQ_END(head)   (NULL)
#define TAILQ_NEXT(elm, field)  ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
 (*(((struct headname *)(void *)((head)->tqh_last))->tqh_last))
#define TAILQ_PREV(elm, headname, field) \
 (*(((struct headname
 *)(void *)((elm)->field.tqe_prev))->tqh_last))
#define TAILQ_EMPTY(head)  (TAILQ_FIRST(head) == TAILQ_END(head))


#define TAILQ_FOREACH(var, head, field)     \
 for ((var) = ((head)->tqh_first);    \
     (var) != TAILQ_END(head);     \
     (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->tqh_first);    \
     (var) != TAILQ_END(head) &&     \
     ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field)  \
 for ((var) = TAILQ_LAST((head), headname);   \
     (var) != TAILQ_END(head);     \
     (var) = TAILQ_PREV((var), headname, field))

#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
 for ((var) = TAILQ_LAST((head), headname);   \
     (var) != TAILQ_END(head) &&     \
     ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
* Tail queue functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head,
 elm, field)   \
 if ((head)->tqh_first &&     \
     (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)   \
 if (*(head)->tqh_last != NULL)     \
```

```
  QUEUEDEBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_OP(elm, field)     \
 if ((elm)->field.tqe_next &&     \
     (elm)->field.tqe_next->field.tqe_prev !=   \
     &(elm)->field.tqe_next)     \
  QUEUEDEBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
      __FILE__, __LINE__);    \
 if (*(elm)->field.tqe_prev != (elm))    \
  QUEUEDEBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
      __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)   \
 if ((elm)->field.tqe_next == NULL &&    \
     (head)->tqh_last != &(elm)->field.tqe_next)   \
  QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d",\
      (head), (elm), __FILE__,
 __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)    \
 (elm)->field.tqe_next = (void *)1L;    \
 (elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do {      \
 (head)->tqh_first = TAILQ_END(head);    \
 (head)->tqh_last = &(head)->tqh_first;    \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head))\
  (head)->tqh_first->field.tqe_prev =   \
      &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (head)->tqh_first = (elm);     \
 (elm)->field.tqe_prev = &(head)->tqh_first;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head,
 elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field)  \
 (elm)->field.tqe_next = TAILQ_END(head);   \
```

```
 (elm)->field.tqe_prev = (head)->tqh_last;   \
 *(head)->tqh_last = (elm);     \
 (head)->tqh_last = &(elm)->field.tqe_next;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 if (((elm)->field.tqe_next = (listelm)->field.tqe_next) !=  \
     TAILQ_END(head))      \
  (elm)->field.tqe_next->field.tqe_prev =   \
      &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (listelm)->field.tqe_next = (elm);    \
 (elm)->field.tqe_prev = &(listelm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 (elm)->field.tqe_prev = (listelm)->field.tqe_prev;  \
 (elm)->field.tqe_next = (listelm);    \
 *(listelm)->field.tqe_prev = (elm);    \
 (listelm)->field.tqe_prev
 = &(elm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_TAILQ_PREREMOVE((head), (elm), field)  \
 QUEUEDEBUG_TAILQ_OP((elm), field)    \
 if (((elm)->field.tqe_next) != TAILQ_END(head))   \
  (elm)->field.tqe_next->field.tqe_prev =   \
      (elm)->field.tqe_prev;    \
 else       \
  (head)->tqh_last = (elm)->field.tqe_prev;  \
 *(elm)->field.tqe_prev = (elm)->field.tqe_next;   \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm), field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_REPLACE(head, elm, elm2, field) do {   \
       if (((elm2)->field.tqe_next = (elm)->field.tqe_next) !=  \
     TAILQ_END(head))        \
            (elm2)->field.tqe_next->field.tqe_prev =  \
                &(elm2)->field.tqe_next;    \
       else       \
            (head)->tqh_last = &(elm2)->field.tqe_next;  \
       (elm2)->field.tqe_prev = (elm)->field.tqe_prev;   \
       *(elm2)->field.tqe_prev = (elm2);    \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm),
```

```
 field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do {    \
 if (!TAILQ_EMPTY(head2)) {     \
  *(head1)->tqh_last = (head2)->tqh_first;  \
  (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
  (head1)->tqh_last = (head2)->tqh_last;   \
  TAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* Singly-linked Tail queue declarations.
*/
#define STAILQ_HEAD(name, type)      \
struct name {       \
 struct type *stqh_first; /* first element */  \
 struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type)      \
struct {       \
 struct type *stqe_next; /* next element */   \
}

/*
* Singly-linked Tail queue access methods.
*/
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head)
 == STAILQ_END(head))

/*
* Singly-linked Tail queue functions.
*/
#define STAILQ_INIT(head) do {      \
 (head)->stqh_first = NULL;     \
 (head)->stqh_last = &(head)->stqh_first;    \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \
```

```
 (head)->stqh_last = &(elm)->field.stqe_next;  \
 (head)->stqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.stqe_next = NULL;     \
 *(head)->stqh_last = (elm);     \
 (head)->stqh_last = &(elm)->field.stqe_next;   \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL)\
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (listelm)->field.stqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->stqh_first = (head)->stqh_first->field.stqe_next)
 == NULL) \
  (head)->stqh_last = &(head)->stqh_first;   \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->stqh_first == (elm)) {    \
  STAILQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->stqh_first;  \
  while (curelm->field.stqe_next != (elm))   \
   curelm = curelm->field.stqe_next;  \
  if ((curelm->field.stqe_next =    \
   curelm->field.stqe_next->field.stqe_next) == NULL) \
      (head)->stqh_last = &(curelm)->field.stqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->stqh_first);    \
  (var);       \
  (var) = ((var)->field.stqe_next))

#define STAILQ_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = STAILQ_FIRST((head));    \
    (var) && ((tvar) = STAILQ_NEXT((var), field), 1);  \
    (var) = (tvar))

#define STAILQ_CONCAT(head1, head2) do {    \
 if (!STAILQ_EMPTY((head2))) {     \
  *(head1)->stqh_last
```

```
 = (head2)->stqh_first;  \
  (head1)->stqh_last = (head2)->stqh_last;  \
  STAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_LAST(head, type, field)     \
 (STAILQ_EMPTY((head)) ?      \
  NULL :      \
        ((struct type *)(void *)    \
  ((char *)((head)->stqh_last) - offsetof(struct type, field))))


#ifndef _KERNEL
/*
* Circular queue definitions. Do not use. We still keep the macros
* for compatibility but because of pointer aliasing issues their use
* is discouraged!
*/

/*
* __launder_type():  We use this ugly hack to work around the the compiler
* noticing that two types may not alias each other and elide tests in code.
* We hit this in the CIRCLEQ macros when comparing 'struct name *' and
* 'struct type *' (see CIRCLEQ_HEAD()).  Modern compilers (such as GCC
* 4.8) declare these comparisons as always false, causing the code to
* not run as designed.
*
* This hack is only to be used for comparisons and thus can be fully const.
 * Do not use for assignment.
*
* If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
* this by changing the head/tail sentinal values, but see the note above
* this one.
*/
static __inline const void * __launder_type(const void *);
static __inline const void *
__launder_type(const void *__x)
{
 __asm __volatile("" : "+r" (__x));
 return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)    \
 if ((head)->cqh_first != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \
```

```
        __FILE__, __LINE__);    \
 if ((head)->cqh_last != CIRCLEQ_ENDC(head) &&   \
     (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
        __FILE__, __LINE__);
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_last != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ
 elm last %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 } else {       \
  if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 }       \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_first != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 } else {       \
  if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
       (elm), __FILE__, __LINE__);   \
 }
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)   \
 (elm)->field.cqe_next = (void *)1L;    \
 (elm)->field.cqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type)     \
struct name {        \
 struct type *cqh_first;  /*
 first element */  \
 struct type *cqh_last;  /* last element */  \
}

#define CIRCLEQ_HEAD_INITIALIZER(head)     \
 { CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type)      \
struct {        \
 struct type *cqe_next;  /* next element */  \
 struct type *cqe_prev;  /* previous element */  \
```

```
}

/*
* Circular queue functions.
*/
#define CIRCLEQ_INIT(head) do {      \
 (head)->cqh_first = CIRCLEQ_END(head);    \
 (head)->cqh_last = CIRCLEQ_END(head);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm)->field.cqe_next;  \
 (elm)->field.cqe_prev = (listelm);    \
 if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm);    \
 else       \
  (listelm)->field.cqe_next->field.cqe_prev = (elm); \
 (listelm)->field.cqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_BEFORE(head,
 listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm);    \
 (elm)->field.cqe_prev = (listelm)->field.cqe_prev;  \
 if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm);    \
 else       \
  (listelm)->field.cqe_prev->field.cqe_next = (elm); \
 (listelm)->field.cqe_prev = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next = (head)->cqh_first;   \
 (elm)->field.cqe_prev = CIRCLEQ_END(head);   \
 if ((head)->cqh_last == CIRCLEQ_ENDC(head))   \
  (head)->cqh_last = (elm);    \
 else       \
  (head)->cqh_first->field.cqe_prev = (elm);  \
 (head)->cqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
```

```
 (elm)->field.cqe_next
 = CIRCLEQ_END(head);   \
 (elm)->field.cqe_prev = (head)->cqh_last;   \
 if ((head)->cqh_first == CIRCLEQ_ENDC(head))   \
  (head)->cqh_first = (elm);    \
 else       \
  (head)->cqh_last->field.cqe_next = (elm);  \
 (head)->cqh_last = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (elm), field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm)->field.cqe_prev;  \
 else       \
  (elm)->field.cqe_next->field.cqe_prev =   \
      (elm)->field.cqe_prev;    \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
  (head)->cqh_first = (elm)->field.cqe_next;  \
 else       \
  (elm)->field.cqe_prev->field.cqe_next =   \
      (elm)->field.cqe_next;    \
 QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->cqh_first);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var)
 = ((var)->field.cqe_next))

#define CIRCLEQ_FOREACH_REVERSE(var, head, field)   \
 for ((var) = ((head)->cqh_last);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var) = ((var)->field.cqe_prev))

/*
* Circular queue access methods.
*/
#define CIRCLEQ_FIRST(head)  ((head)->cqh_first)
#define CIRCLEQ_LAST(head)  ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head)  (__launder_type(head))
/* For assignments */
#define CIRCLEQ_END(head)  ((void *)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)
```

```
#define CIRCLEQ_EMPTY(head)      \
   (CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

#define CIRCLEQ_LOOP_NEXT(head, elm, field)    \
 (((elm)->field.cqe_next == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_first)     \
     : (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field)    \
 (((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_last)     \
     :
 (elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
# Contributor: Francesco Colista <fcolista@alpinelinux.org>
# Maintainer: Bart Ribbers <bribbers@disroot.org>
pkgname=qt5-qtsensors
pkgver=5.15.10_git20230424
pkgrel=1
_module="${pkgname#qt5-}"
_pkgver=45c04582b15a9bb4be01ae99aa7fda1bbba7d0df
_fullname=$_module-$_pkgver
pkgdesc="+The Qt Sensors API provides access to sensor hardware via QML and C++"
url="https://www.qt.io/developers/"
arch="all !armhf" # armhf blocked by qt5-qtdeclarative
license="LGPL-2.1-only AND LGPL-3.0-only AND GPL-3.0-only AND Qt-GPL-exception-1.0"
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/* Modified by Void Linux. */
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*/

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y)      \
 ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) ||   \
  (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
#endif

/*
* This file defines data structures for different types of trees:
* splay trees and red-black trees.
*
* A splay tree is a self-organizing
 data structure.  Every operation
* on the tree causes a splay to happen.  The splay moves the requested
* node to the root of the tree and partly rebalances it.
*
* This has the benefit that request locality causes faster lookups as
* the requested nodes move to the top of the tree.  On the other hand,
* every lookup causes memory writes.
*
* The Balance Theorem bounds the total access time for m operations
* and n inserts on an initially empty tree as O((m + n)lg n).  The
* amortized cost for a sequence of m accesses to a splay tree is O(lg n);
*
* A red-black tree is a binary search tree with the node color as an
* extra attribute.  It fulfills a set of conditions:
* - every search path from the root to a leaf consists of the
*   same number of black nodes,
* - each red node (except for the root) has a black parent,
```

```
* - each leaf node is black.
*
* Every operation on a red-black tree is bounded as O(lg n).
* The maximum height of a red-black tree is 2lg (n+1).
 */

#define SPLAY_HEAD(name, type)      \
struct name {       \
 struct type *sph_root; /* root of the tree */   \
}

#define SPLAY_INITIALIZER(root)     \
 { NULL }

#define SPLAY_INIT(root) do {      \
 (root)->sph_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type)      \
struct {       \
 struct type *spe_left; /* left element */   \
 struct type *spe_right; /* right element */   \
}

#define SPLAY_LEFT(elm, field)  (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field)  (elm)->field.spe_right
#define SPLAY_ROOT(head)  (head)->sph_root
#define SPLAY_EMPTY(head)  (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do {   \
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do {   \
 SPLAY_RIGHT((head)->sph_root,
 field) = SPLAY_LEFT(tmp, field); \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do {    \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);  \
} while (/*CONSTCOND*/ 0)
```

```
#define SPLAY_LINKRIGHT(head, tmp, field) do {    \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do {  \
 SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
 SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field);\
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
 SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */

#define
 SPLAY_PROTOTYPE(name, type, field, cmp)    \
void name##_SPLAY(struct name *, struct type *);   \
void name##_SPLAY_MINMAX(struct name *, int);    \
struct type *name##_SPLAY_INSERT(struct name *, struct type *);  \
struct type *name##_SPLAY_REMOVE(struct name *, struct type *);  \
        \
/* Finds the node with the same key as elm */    \
static __inline struct type *      \
name##_SPLAY_FIND(struct name *head, struct type *elm)   \
{        \
 if (SPLAY_EMPTY(head))      \
  return(NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0)    \
  return (head->sph_root);    \
 return (NULL);       \
}        \
        \
static __inline _sys_tree_h_unused struct type *   \
name##_SPLAY_NEXT(struct name *head, struct type *elm)   \
{        \
 name##_SPLAY(head, elm);     \
 if (SPLAY_RIGHT(elm, field) != NULL) {    \
  elm = SPLAY_RIGHT(elm, field);    \
  while (SPLAY_LEFT(elm, field) != NULL) {  \
   elm = SPLAY_LEFT(elm, field);   \
  }       \
 }
 else       \
  elm = NULL;      \
 return (elm);       \
```

```
}       \
       \
static _sys_tree_h_unused __inline struct type *   \
name##_SPLAY_MIN_MAX(struct name *head, int val)   \
{       \
 name##_SPLAY_MINMAX(head, val);     \
      return (SPLAY_ROOT(head));     \
}

/* Main splay operation.
* Moves node close to the key of elm to top
*/
#define SPLAY_GENERATE(name, type, field, cmp)    \
struct type *       \
name##_SPLAY_INSERT(struct name *head, struct type *elm)  \
{       \
  if (SPLAY_EMPTY(head)) {      \
    SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
  } else {       \
    int __comp;       \
    name##_SPLAY(head, elm);     \
    __comp = (cmp)(elm, (head)->sph_root);   \
    if(__comp < 0) {      \
     SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
     SPLAY_RIGHT(elm, field) = (head)->sph_root;  \
     SPLAY_LEFT((head)->sph_root, field) = NULL;  \
    } else if (__comp > 0) {     \
     SPLAY_RIGHT(elm,
 field) = SPLAY_RIGHT((head)->sph_root, field);\
     SPLAY_LEFT(elm, field) = (head)->sph_root;  \
     SPLAY_RIGHT((head)->sph_root, field) = NULL; \
    } else       \
     return ((head)->sph_root);    \
  }       \
  (head)->sph_root = (elm);      \
  return (NULL);       \
}       \
       \
struct type *       \
name##_SPLAY_REMOVE(struct name *head, struct type *elm)  \
{       \
 struct type *__tmp;      \
 if (SPLAY_EMPTY(head))      \
  return (NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0) {   \
  if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
   (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
```

```
  } else {      \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
   name##_SPLAY(head, elm);   \
   SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
  }       \
  return (elm);      \
 }        \
 return (NULL);       \
}         \
         \
void         \
name##_SPLAY(struct
 name *head, struct type *elm)   \
{         \
 struct type __node, *__left, *__right, *__tmp;   \
 int __comp;       \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) {  \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) < 0){   \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) > 0){   \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
 }        \
 SPLAY_ASSEMBLE(head,
 &__node, __left, __right, field);  \
}         \
         \
```

```
/* Splay with either the minimum or the maximum element  \
* Used to find minimum or maximum element in tree.  \
*/       \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{       \
 struct type __node, *__left, *__right, *__tmp;  \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;    \
\
 while (1) {      \
  if (__comp < 0) {    \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)   \
    break;    \
   if (__comp < 0){   \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;   \
   }     \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {   \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)   \
    break;    \
   if (__comp > 0) {   \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root,
 field) == NULL)\
     break;   \
   }     \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }      \
 }       \
 SPLAY_ASSEMBLE(head, &__node, __left, __right, field);  \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y)  name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y)  name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))
```

```
#define SPLAY_FOREACH(x, name, head)    \
 for ((x) = SPLAY_MIN(name, head);   \
     (x) != NULL;     \
     (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type)     \
struct name {       \
 struct type *rbh_root; /* root of the tree */  \
}

#define RB_INITIALIZER(root)     \
 {
 NULL }

#define RB_INIT(root) do {     \
 (root)->rbh_root = NULL;    \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED  1
#define RB_ENTRY(type)      \
struct {       \
 struct type *rbe_left;  /* left element */  \
 struct type *rbe_right;  /* right element */  \
 struct type *rbe_parent; /* parent element */  \
 int rbe_color;   /* node color */  \
}

#define RB_LEFT(elm, field)  (elm)->field.rbe_left
#define RB_RIGHT(elm, field)  (elm)->field.rbe_right
#define RB_PARENT(elm, field)  (elm)->field.rbe_parent
#define RB_COLOR(elm, field)  (elm)->field.rbe_color
#define RB_ROOT(head)   (head)->rbh_root
#define RB_EMPTY(head)   (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do {    \
 RB_PARENT(elm, field) = parent;    \
 RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL;  \
 RB_COLOR(elm, field) = RB_RED;    \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do {    \
 RB_COLOR(black, field) = RB_BLACK;    \
 RB_COLOR(red, field)
 = RB_RED;    \
} while (/*CONSTCOND*/ 0)
```

```
#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do {   \
 (tmp) = RB_RIGHT(elm, field);     \
 if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
  RB_PARENT(RB_LEFT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else      \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
  (head)->rbh_root = (tmp);    \
 RB_LEFT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do {   \
 (tmp) = RB_LEFT(elm, field);     \
 if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field))
 != NULL) { \
  RB_PARENT(RB_RIGHT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else      \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
  (head)->rbh_root = (tmp);    \
 RB_RIGHT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp)    \
```

```
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp)   \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr)  \
attr void name##_RB_INSERT_COLOR(struct name *, struct
 type *);  \
attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *);\
attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
attr struct type *name##_RB_INSERT(struct name *, struct type *); \
attr struct type *name##_RB_FIND(struct name *, struct type *);  \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *);   \
attr struct type *name##_RB_PREV(struct type *);   \
attr struct type *name##_RB_MINMAX(struct name *, int);   \
        \

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp)    \
 RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp)   \
 RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr)  \
attr void        \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm)  \
{        \
 struct type
 *parent, *gparent, *tmp;    \
 while ((parent = RB_PARENT(elm, field)) != NULL &&  \
     RB_COLOR(parent, field) == RB_RED) {   \
  gparent = RB_PARENT(parent, field);   \
  if (parent == RB_LEFT(gparent, field)) {  \
   tmp = RB_RIGHT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_RIGHT(parent, field) == elm) {  \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_RIGHT(head, gparent, tmp, field); \
```

```
 } else {      \
  tmp = RB_LEFT(gparent, field);   \
  if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
   RB_COLOR(tmp, field) = RB_BLACK; \
   RB_SET_BLACKRED(parent, gparent, field);\
   elm = gparent;    \
   continue;    \
  }      \
  if (RB_LEFT(parent, field) == elm)
 {  \
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   tmp = parent;    \
   parent = elm;    \
   elm = tmp;    \
  }      \
  RB_SET_BLACKRED(parent, gparent, field); \
  RB_ROTATE_LEFT(head, gparent, tmp, field); \
 }       \
 }       \
 RB_COLOR(head->rbh_root, field) = RB_BLACK;   \
}        \
        \
attr void        \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{        \
 struct type *tmp;      \
 while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
     elm != RB_ROOT(head)) {     \
  if (RB_LEFT(parent, field) == elm) {   \
   tmp = RB_RIGHT(parent, field);   \
   if (RB_COLOR(tmp, field) == RB_RED) {  \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = RB_RIGHT(parent, field);  \
   }      \
   if ((RB_LEFT(tmp, field) == NULL ||  \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
       (RB_RIGHT(tmp, field) == NULL ||  \
       RB_COLOR(RB_RIGHT(tmp,
 field), field) == RB_BLACK)) {\
    RB_COLOR(tmp, field) = RB_RED;  \
    elm = parent;    \
    parent = RB_PARENT(elm, field);  \
   } else {     \
    if (RB_RIGHT(tmp, field) == NULL || \
        RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
     struct type *oleft;  \
     if ((oleft = RB_LEFT(tmp, field)) \
```

```
        != NULL)   \
     RB_COLOR(oleft, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_RIGHT(head, tmp, oleft, field);\
    tmp = RB_RIGHT(parent, field); \
   }     \
  RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
  RB_COLOR(parent, field) = RB_BLACK; \
  if (RB_RIGHT(tmp, field))  \
   RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
  RB_ROTATE_LEFT(head, parent, tmp, field);\
  elm = RB_ROOT(head);   \
  break;     \
 }      \
} else {      \
 tmp = RB_LEFT(parent, field);   \
 if (RB_COLOR(tmp, field) == RB_RED) {  \
  RB_SET_BLACKRED(tmp, parent, field); \
  RB_ROTATE_RIGHT(head, parent, tmp, field);\
  tmp
= RB_LEFT(parent, field);  \
 }      \
 if ((RB_LEFT(tmp, field) == NULL ||  \
     RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
     (RB_RIGHT(tmp, field) == NULL ||  \
     RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
  RB_COLOR(tmp, field) = RB_RED;  \
  elm = parent;    \
  parent = RB_PARENT(elm, field);  \
 } else {     \
  if (RB_LEFT(tmp, field) == NULL ||\
      RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
   struct type *oright;  \
   if ((oright = RB_RIGHT(tmp, field)) \
       != NULL)   \
    RB_COLOR(oright, field) = RB_BLACK;\
   RB_COLOR(tmp, field) = RB_RED; \
   RB_ROTATE_LEFT(head, tmp, oright, field);\
   tmp = RB_LEFT(parent, field); \
   }     \
  RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
  RB_COLOR(parent, field) = RB_BLACK; \
  if (RB_LEFT(tmp, field))  \
   RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
  RB_ROTATE_RIGHT(head, parent, tmp, field);\
  elm = RB_ROOT(head);   \
  break;     \
 }      \
```

```
 }      \
 }      \
 if
 (elm)      \
  RB_COLOR(elm, field) = RB_BLACK;   \
}       \
       \
attr struct type *       \
name##_RB_REMOVE(struct name *head, struct type *elm)   \
{       \
 struct type *child, *parent, *old = elm;   \
 int color;      \
 if (RB_LEFT(elm, field) == NULL)    \
  child = RB_RIGHT(elm, field);    \
 else if (RB_RIGHT(elm, field) == NULL)    \
  child = RB_LEFT(elm, field);    \
 else {       \
  struct type *left;     \
  elm = RB_RIGHT(elm, field);    \
  while ((left = RB_LEFT(elm, field)) != NULL)  \
   elm = left;     \
  child = RB_RIGHT(elm, field);    \
  parent = RB_PARENT(elm, field);    \
  color = RB_COLOR(elm, field);    \
  if (child)      \
   RB_PARENT(child, field) = parent;  \
  if (parent) {      \
   if (RB_LEFT(parent, field) == elm)  \
    RB_LEFT(parent, field) = child;  \
   else      \
    RB_RIGHT(parent, field) = child; \
   RB_AUGMENT(parent);    \
  } else       \
   RB_ROOT(head)
 = child;    \
  if (RB_PARENT(elm, field) == old)   \
   parent = elm;     \
  (elm)->field = (old)->field;    \
  if (RB_PARENT(old, field)) {    \
   if (RB_LEFT(RB_PARENT(old, field), field) == old)\
    RB_LEFT(RB_PARENT(old, field), field) = elm;\
   else      \
    RB_RIGHT(RB_PARENT(old, field), field) = elm;\
   RB_AUGMENT(RB_PARENT(old, field));  \
  } else       \
   RB_ROOT(head) = elm;    \
  RB_PARENT(RB_LEFT(old, field), field) = elm;  \
  if (RB_RIGHT(old, field))    \
```

```
  RB_PARENT(RB_RIGHT(old, field), field) = elm; \
 if (parent) {      \
  left = parent;     \
  do {      \
   RB_AUGMENT(left);   \
  } while ((left = RB_PARENT(left, field)) != NULL); \
 }       \
 goto color;      \
}       \
 parent = RB_PARENT(elm, field);     \
 color = RB_COLOR(elm, field);     \
 if (child)       \
  RB_PARENT(child, field) = parent;   \
 if (parent) {       \
  if (RB_LEFT(parent, field) == elm)   \
   RB_LEFT(parent, field) = child;   \
  else       \
   RB_RIGHT(parent,
 field) = child;  \
  RB_AUGMENT(parent);     \
 } else       \
  RB_ROOT(head) = child;     \
color:        \
 if (color == RB_BLACK)      \
  name##_RB_REMOVE_COLOR(head, parent, child);  \
 return (old);       \
}        \
        \
/* Inserts a node into the RB tree */     \
attr struct type *       \
name##_RB_INSERT(struct name *head, struct type *elm)   \
{        \
 struct type *tmp;      \
 struct type *parent = NULL;     \
 int comp = 0;       \
 tmp = RB_ROOT(head);      \
 while (tmp) {       \
  parent = tmp;      \
  comp = (cmp)(elm, parent);    \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }       \
 RB_SET(elm, parent, field);     \
 if (parent != NULL) {      \
```

```
 if (comp < 0)      \
  RB_LEFT(parent, field) = elm;   \
 else       \
  RB_RIGHT(parent, field) = elm;   \
 RB_AUGMENT(parent);     \
 } else       \
 RB_ROOT(head) = elm;     \
 name##_RB_INSERT_COLOR(head,
 elm);    \
 return (NULL);       \
}        \
       \
/* Finds the node with the same key as elm */    \
attr struct type *       \
name##_RB_FIND(struct name *head, struct type *elm)   \
{        \
 struct type *tmp = RB_ROOT(head);    \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }        \
 return (NULL);       \
}        \
       \
/* Finds the first node greater than or equal to the search key */ \
attr struct type *       \
name##_RB_NFIND(struct name *head, struct type *elm)   \
{        \
 struct type *tmp = RB_ROOT(head);    \
 struct type *res = NULL;     \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0) {      \
   res = tmp;     \
   tmp = RB_LEFT(tmp, field);   \
  }       \
  else if (comp > 0)     \
   tmp =
 RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
```

```
 }       \
 return (res);       \
}        \
        \
/* ARGSUSED */       \
attr struct type *       \
name##_RB_NEXT(struct type *elm)     \
{        \
 if (RB_RIGHT(elm, field)) {     \
  elm = RB_RIGHT(elm, field);    \
  while (RB_LEFT(elm, field))    \
   elm = RB_LEFT(elm, field);   \
 } else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
       (elm == RB_RIGHT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);   \
  }       \
 }       \
 return (elm);       \
}        \
        \
/* ARGSUSED */       \
attr struct type *       \
name##_RB_PREV(struct type *elm)     \
{        \
 if (RB_LEFT(elm, field)) {     \
  elm = RB_LEFT(elm, field);    \
  while (RB_RIGHT(elm, field))    \
   elm = RB_RIGHT(elm, field);   \
 }
 else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
       (elm == RB_LEFT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);   \
  }       \
 }       \
 return (elm);       \
}        \
```

```
        \
attr struct type *      \
name##_RB_MINMAX(struct name *head, int val)    \
{       \
 struct type *tmp = RB_ROOT(head);    \
 struct type *parent = NULL;     \
 while (tmp) {       \
  parent = tmp;      \
  if (val < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else       \
   tmp = RB_RIGHT(tmp, field);   \
 }       \
 return (parent);      \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x,
 y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x)  name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x)  name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head)     \
 for ((x) = RB_MIN(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y)     \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y)    \
 for ((x) = RB_MIN(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE(x, name, head)    \
 for ((x) = RB_MAX(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_PREV(x))
```

```
#define RB_FOREACH_REVERSE_FROM(x, name, y)    \
 for ((x) = (y);       \
    ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
     (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name,
 head, y)   \
 for ((x) = RB_MAX(name, head);     \
    ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
     (x) = (y))

#endif /* _SYS_TREE_H_ */
```

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1.1067 busybox 1.37.0-r18

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```

Found in path(s):
* /aports-master-main-busybox-zip/aports-master-main-busybox/main/busybox/bbsuid.c
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```
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* depmod - generate modules.dep
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@@ -25,6 +25,24 @@
#include "modutils.h"
#include <sys/utsname.h> /* uname() */

+#define INDEX_MINCHAR 32
+#define INDEX_MAXCHAR 128
+
+typedef struct index_node {
+ char *prefix;
+ llist_t *values;
+ struct index_node *children[INDEX_MAXCHAR-INDEX_MINCHAR];
+} index_node;
+
+struct globals {
+ module_db db;
+ index_node *root_node;
+} FIX_ALIASING;
+#define G (*ptr_to_globals)
```

```
+#define INIT_G() do { \
+ SET_PTR_TO_GLOBALS(xzalloc(sizeof(G))); \
+} while (0)
+
/*
* Theory of operation:
* - iterate over all modules and record their full path
@@ -53,18 +71,12 @@ static int FAST_FUNC parse_module(struct recursive_state
 *state,

for (ptr = image; ptr < image + len - 10; ptr++) {
if (is_prefixed_with(ptr, "depends=")) {
-   char *u;
-
ptr += 8;
-   for (u = ptr; *u; u++)
-    if (*u == '-')
-     *u = '_';
-   ptr += string_to_llist(ptr, &e->deps, ",");
+   string_to_llist(replace_underscores(ptr), &e->deps, ",");
} else if (ENABLE_FEATURE_MODUTILS_ALIAS
&& is_prefixed_with(ptr, "alias=")
) {
-   llist_add_to(&e->aliases, xstrdup(ptr + 6));
-   ptr += strlen(ptr);
+   llist_add_to(&e->aliases, replace_underscores(xstrdup(ptr + 6)));
} else if (ENABLE_FEATURE_MODUTILS_SYMBOLS
&& is_prefixed_with(ptr, "__ksymtab_")
) {
@@ -74,9 +86,10 @@ static int FAST_FUNC parse_module(struct recursive_state *state,
) {
continue;
}
-   llist_add_to(&e->symbols, xstrdup(ptr));
-   ptr += strlen(ptr);
-  }
+   llist_add_to(&e->symbols, xasprintf("symbol:%s", ptr));
+  } else
+   continue;
+  ptr += strlen(ptr);
}
free(image);

@@ -108,12 +121,6 @@ static void order_dep_list(module_db *modules, module_entry *start, llist_t
 *add
}
}
```

-static void xfreopen_write(const char *file, FILE *f)
-{
- if (freopen(file, "w", f) == NULL)
- bb_perror_msg_and_die("can't open '%s'", file);
-}
-
//usage:#if !ENABLE_MODPROBE_SMALL
//usage:#define depmod_trivial_usage "[-n] [-b BASE] [VERSION] [MODFILES]..."
//usage:#define depmod_full_usage "\n\n"
@@ -167,6 +174,169 @@ enum {
OPT_C = (1 << 9), /* -C,--config etc_modules_conf: ignored */

Found in path(s):
* /aports-master-main-busybox-zip/aports-master-main-busybox/main/busybox/0018-depmod-support-generating-kmod-binary-index-files.patch
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Found in path(s):
* /aports-master-main-busybox-zip/aports-master-main-busybox/main/busybox/0024-umount-Implement-O-option-to-unmount-by-mount-option.patch

1.1068 nss 3.112-r0

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lap.pod
mpi-test.pod
prime.txt
prng.pod

This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

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Sean Mcafee <eefacm@gmail.com>
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1.1069 pam 1.7.0-r4

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maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
```

```
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

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SUCH DAMAGE.
Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2

```
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
```

```
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
```

d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"
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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
Contributor: Dhruvin Gandhi <contact@dhru.vin>
Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

```
build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
/* $NetBSD: queue.h,v 1.70 2015/11/02 15:21:23 christos Exp $ */

/*
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* SUCH DAMAGE.
*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
*/

#ifndef _SYS_QUEUE_H_
#define _SYS_QUEUE_H_

/*
* This file defines five types of data structures: singly-linked lists,
* lists, simple queues, tail queues, and circular queues.
*
* A singly-linked list is headed by a single forward pointer. The
* elements are singly linked for minimum space and
 pointer manipulation
* overhead at the expense of O(n) removal for arbitrary elements. New
* elements can be added to the list after an existing element or at the
* head of the list.  Elements being removed from the head of the list
* should use the explicit macro for this purpose for optimum
* efficiency. A singly-linked list may only be traversed in the forward
* direction.  Singly-linked lists are ideal for applications with large
* datasets and few or no removals or for implementing a LIFO queue.
*
* A list is headed by a single forward pointer (or an array of forward
* pointers for a hash table header). The elements are doubly linked
* so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before
* or after an existing element or at the head of the list. A list
* may only be traversed in the forward direction.
*
* A simple queue is headed by a pair of pointers, one the head of the
* list and the
 other to the tail of the list. The elements are singly
* linked to save space, so elements can only be removed from the
* head of the list. New elements can be added to the list after
* an existing element, at the head of the list, or at the end of the
* list. A simple queue may only be traversed in the forward direction.
*
* A tail queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before or
* after an existing element, at the head of the list, or at the end of
* the list. A tail queue may be traversed in either direction.
```

```
*
* A circle queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements
 can be added to the list before or after
* an existing element, at the head of the list, or at the end of the list.
* A circle queue may be traversed in either direction, but has a more
* complex end of list detection.
*
* For details on the use of these macros, see the queue(3) manual page.
*/

/*
* Include the definition of NULL only on NetBSD because sys/null.h
* is not available elsewhere.  This conditional makes the header
* portable and it can simply be dropped verbatim into any system.
* The caveat is that on other systems some other header
* must provide NULL before the macros can be used.
*/
#ifdef __NetBSD__
#include <sys/null.h>
#endif

#if defined(QUEUEDEBUG)
# if defined(_KERNEL)
#  define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
#  include <err.h>
#  define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
* Singly-linked List definitions.
*/
#define SLIST_HEAD(name, type)      \
struct name {       \
 struct type *slh_first; /* first
 element */   \
}

#define SLIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define SLIST_ENTRY(type)      \
struct {       \
 struct type *sle_next; /* next element */   \
```

```
}

/*
* Singly-linked List access methods.
*/
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head)  NULL
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field)     \
 for((var) = (head)->slh_first;     \
     (var) != SLIST_END(head);     \
     (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = SLIST_FIRST((head));    \
     (var) != SLIST_END(head) &&     \
     ((tvar) = SLIST_NEXT((var), field), 1);   \
     (var) = (tvar))

/*
* Singly-linked List functions.
*/
#define SLIST_INIT(head) do {      \
 (head)->slh_first = SLIST_END(head);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do {   \
 (elm)->field.sle_next = (slistelm)->field.sle_next;  \
 (slistelm)->field.sle_next
 = (elm);    \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do {   \
 (elm)->field.sle_next = (head)->slh_first;   \
 (head)->slh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do {   \
 (slistelm)->field.sle_next =     \
     SLIST_NEXT(SLIST_NEXT((slistelm), field), field);  \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do {    \
 (head)->slh_first = (head)->slh_first->field.sle_next;  \
} while (/*CONSTCOND*/0)
```

```
#define SLIST_REMOVE(head, elm, type, field) do {   \
 if ((head)->slh_first == (elm)) {    \
  SLIST_REMOVE_HEAD((head), field);   \
 }       \
 else {       \
  struct type *curelm = (head)->slh_first;  \
  while(curelm->field.sle_next != (elm))   \
   curelm = curelm->field.sle_next;  \
  curelm->field.sle_next =    \
      curelm->field.sle_next->field.sle_next;  \
 }       \
} while (/*CONSTCOND*/0)


/*
* List definitions.
 */
#define LIST_HEAD(name, type)      \
struct name {       \
 struct type *lh_first; /* first element */   \
}

#define LIST_HEAD_INITIALIZER(head)     \
 { NULL }

#define LIST_ENTRY(type)      \
struct {       \
 struct type *le_next; /* next element */   \
 struct type **le_prev; /* address of previous next element */ \
}

/*
* List access methods.
*/
#define LIST_FIRST(head)  ((head)->lh_first)
#define LIST_END(head)   NULL
#define LIST_EMPTY(head)  ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field)  ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field)     \
 for ((var) = ((head)->lh_first);    \
    (var) != LIST_END(head);     \
    (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = LIST_FIRST((head));    \
    (var) != LIST_END(head) &&     \
    ((tvar) = LIST_NEXT((var), field), 1);   \
```

```
    (var) = (tvar))

#define LIST_MOVE(head1, head2) do {     \
 LIST_INIT((head2));      \
 if (!LIST_EMPTY((head1)))
 {     \
  (head2)->lh_first = (head1)->lh_first;   \
  LIST_INIT((head1));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* List functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)   \
 if ((head)->lh_first &&      \
    (head)->lh_first->field.le_prev != &(head)->lh_first) \
  QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field)     \
 if ((elm)->field.le_next &&     \
    (elm)->field.le_next->field.le_prev !=   \
    &(elm)->field.le_next)     \
  QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm),  \
     __FILE__, __LINE__);    \
 if (*(elm)->field.le_prev != (elm))    \
  QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm),  \
     __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)    \
 (elm)->field.le_next = (void *)1L;    \
 (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm,
 field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do {      \
 (head)->lh_first = LIST_END(head);    \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 if (((elm)->field.le_next = (listelm)->field.le_next) !=  \
    LIST_END(head))      \
  (listelm)->field.le_next->field.le_prev =  \
```

```
    &(elm)->field.le_next;    \
 (listelm)->field.le_next = (elm);    \
 (elm)->field.le_prev = &(listelm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_LIST_OP((listelm), field)    \
 (elm)->field.le_prev = (listelm)->field.le_prev;  \
 (elm)->field.le_next = (listelm);    \
 *(listelm)->field.le_prev = (elm);    \
 (listelm)->field.le_prev = &(elm)->field.le_next;  \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do {    \
 QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.le_next
 = (head)->lh_first) != LIST_END(head))\
  (head)->lh_first->field.le_prev = &(elm)->field.le_next;\
 (head)->lh_first = (elm);     \
 (elm)->field.le_prev = &(head)->lh_first;   \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do {     \
 QUEUEDEBUG_LIST_OP((elm), field)    \
 if ((elm)->field.le_next != NULL)    \
  (elm)->field.le_next->field.le_prev =    \
     (elm)->field.le_prev;    \
 *(elm)->field.le_prev = (elm)->field.le_next;   \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do {    \
 if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
  (elm2)->field.le_next->field.le_prev =   \
     &(elm2)->field.le_next;    \
 (elm2)->field.le_prev = (elm)->field.le_prev;   \
 *(elm2)->field.le_prev = (elm2);    \
 QUEUEDEBUG_LIST_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

/*
* Simple queue definitions.
*/
#define SIMPLEQ_HEAD(name, type)     \
struct name {        \
 struct
 type *sqh_first; /* first element */   \
 struct type **sqh_last; /* addr of last next element */  \
```

```
}

#define SIMPLEQ_HEAD_INITIALIZER(head)    \
 { NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type)      \
struct {        \
 struct type *sqe_next; /* next element */   \
}

/*
* Simple queue access methods.
*/
#define SIMPLEQ_FIRST(head)  ((head)->sqh_first)
#define SIMPLEQ_END(head)  NULL
#define SIMPLEQ_EMPTY(head)  ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)

#define SIMPLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head);     \
     (var) = ((var)->field.sqe_next))

#define SIMPLEQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->sqh_first);    \
     (var) != SIMPLEQ_END(head) &&    \
     ((next = ((var)->field.sqe_next)), 1);   \
     (var) = (next))

/*
* Simple queue functions.
*/
#define SIMPLEQ_INIT(head) do {      \
 (head)->sqh_first = NULL;     \
 (head)->sqh_last
 = &(head)->sqh_first;    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (head)->sqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.sqe_next = NULL;     \
 *(head)->sqh_last = (elm);     \
 (head)->sqh_last = &(elm)->field.sqe_next;   \
```

```
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL)\
  (head)->sqh_last = &(elm)->field.sqe_next;  \
 (listelm)->field.sqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
  (head)->sqh_last = &(head)->sqh_first;   \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do {   \
 if
 (((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
    == NULL)       \
  (head)->sqh_last = &(elm)->field.sqe_next;  \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->sqh_first == (elm)) {    \
  SIMPLEQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->sqh_first;  \
  while (curelm->field.sqe_next != (elm))   \
   curelm = curelm->field.sqe_next;  \
  if ((curelm->field.sqe_next =    \
   curelm->field.sqe_next->field.sqe_next) == NULL) \
      (head)->sqh_last = &(curelm)->field.sqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do {    \
 if (!SIMPLEQ_EMPTY((head2))) {     \
  *(head1)->sqh_last = (head2)->sqh_first;  \
  (head1)->sqh_last = (head2)->sqh_last;  \
  SIMPLEQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field)     \
 (SIMPLEQ_EMPTY((head)) ?      \
  NULL :       \
        ((struct type
 *)(void *)    \
  ((char *)((head)->sqh_last) - offsetof(struct type, field))))
```

```
/*
* Tail queue definitions.
*/
#define _TAILQ_HEAD(name, type, qual)     \
struct name {       \
 qual type *tqh_first;  /* first element */  \
 qual type *qual *tqh_last; /* addr of last next element */ \
}
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head)     \
 { TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual)     \
struct {       \
 qual type *tqe_next;  /* next element */  \
 qual type *qual *tqe_prev; /* address of previous next element */\
}
#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
* Tail queue access methods.
*/
#define TAILQ_FIRST(head)  ((head)->tqh_first)
#define TAILQ_END(head)   (NULL)
#define TAILQ_NEXT(elm, field)  ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
 (*(((struct headname *)(void *)((head)->tqh_last))->tqh_last))
#define TAILQ_PREV(elm, headname, field) \
 (*(((struct headname
 *)(void *)((elm)->field.tqe_prev))->tqh_last))
#define TAILQ_EMPTY(head)  (TAILQ_FIRST(head) == TAILQ_END(head))


#define TAILQ_FOREACH(var, head, field)     \
 for ((var) = ((head)->tqh_first);    \
     (var) != TAILQ_END(head);     \
     (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next)   \
 for ((var) = ((head)->tqh_first);    \
     (var) != TAILQ_END(head) &&     \
     ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field)  \
 for ((var) = TAILQ_LAST((head), headname);   \
     (var) != TAILQ_END(head);     \
     (var) = TAILQ_PREV((var), headname, field))
```

```
#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
 for ((var) = TAILQ_LAST((head), headname);   \
    (var) != TAILQ_END(head) &&     \
    ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
* Tail queue functions.
*/
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head,
 elm, field)   \
 if ((head)->tqh_first &&     \
    (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)   \
 if (*(head)->tqh_last != NULL)     \
  QUEUEDEBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_OP(elm, field)     \
 if ((elm)->field.tqe_next &&     \
    (elm)->field.tqe_next->field.tqe_prev !=   \
    &(elm)->field.tqe_next)     \
  QUEUEDEBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
     __FILE__, __LINE__);    \
 if (*(elm)->field.tqe_prev != (elm))    \
  QUEUEDEBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
     __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)   \
 if ((elm)->field.tqe_next == NULL &&    \
    (head)->tqh_last != &(elm)->field.tqe_next)   \
  QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d",\
     (head), (elm), __FILE__,
 __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)    \
 (elm)->field.tqe_next = (void *)1L;    \
 (elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do {      \
 (head)->tqh_first = TAILQ_END(head);    \
```

```
 (head)->tqh_last = &(head)->tqh_first;    \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do {    \
 QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field)  \
 if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head))\
  (head)->tqh_first->field.tqe_prev =    \
      &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (head)->tqh_first = (elm);     \
 (elm)->field.tqe_prev = &(head)->tqh_first;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head,
 elm, field) do {   \
 QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field)  \
 (elm)->field.tqe_next = TAILQ_END(head);   \
 (elm)->field.tqe_prev = (head)->tqh_last;   \
 *(head)->tqh_last = (elm);     \
 (head)->tqh_last = &(elm)->field.tqe_next;   \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 if (((elm)->field.tqe_next = (listelm)->field.tqe_next) !=  \
     TAILQ_END(head))      \
  (elm)->field.tqe_next->field.tqe_prev =   \
      &(elm)->field.tqe_next;    \
 else       \
  (head)->tqh_last = &(elm)->field.tqe_next;  \
 (listelm)->field.tqe_next = (elm);    \
 (elm)->field.tqe_prev = &(listelm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_BEFORE(listelm, elm, field) do {   \
 QUEUEDEBUG_TAILQ_OP((listelm), field)    \
 (elm)->field.tqe_prev = (listelm)->field.tqe_prev;  \
 (elm)->field.tqe_next = (listelm);    \
 *(listelm)->field.tqe_prev = (elm);    \
 (listelm)->field.tqe_prev
 = &(elm)->field.tqe_next;  \
} while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_TAILQ_PREREMOVE((head), (elm), field)  \
 QUEUEDEBUG_TAILQ_OP((elm), field)    \
 if (((elm)->field.tqe_next) != TAILQ_END(head))   \
```

```
 (elm)->field.tqe_next->field.tqe_prev =   \
     (elm)->field.tqe_prev;    \
 else        \
  (head)->tqh_last = (elm)->field.tqe_prev;  \
 *(elm)->field.tqe_prev = (elm)->field.tqe_next;   \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm), field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_REPLACE(head, elm, elm2, field) do {   \
       if (((elm2)->field.tqe_next = (elm)->field.tqe_next) !=  \
     TAILQ_END(head))        \
             (elm2)->field.tqe_next->field.tqe_prev =  \
                 &(elm2)->field.tqe_next;    \
       else        \
             (head)->tqh_last = &(elm2)->field.tqe_next;  \
       (elm2)->field.tqe_prev = (elm)->field.tqe_prev;   \
       *(elm2)->field.tqe_prev = (elm2);    \
 QUEUEDEBUG_TAILQ_POSTREMOVE((elm),
 field);   \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do {    \
 if (!TAILQ_EMPTY(head2)) {     \
  *(head1)->tqh_last = (head2)->tqh_first;  \
  (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
  (head1)->tqh_last = (head2)->tqh_last;   \
  TAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

/*
* Singly-linked Tail queue declarations.
*/
#define STAILQ_HEAD(name, type)      \
struct name {        \
 struct type *stqh_first; /* first element */  \
 struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head)     \
 { NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type)      \
struct {        \
 struct type *stqe_next; /* next element */   \
}

/*
```

```
* Singly-linked Tail queue access methods.
*/
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head)
 == STAILQ_END(head))

/*
* Singly-linked Tail queue functions.
*/
#define STAILQ_INIT(head) do {      \
 (head)->stqh_first = NULL;     \
 (head)->stqh_last = &(head)->stqh_first;    \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do {   \
 if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (head)->stqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do {   \
 (elm)->field.stqe_next = NULL;     \
 *(head)->stqh_last = (elm);     \
 (head)->stqh_last = &(elm)->field.stqe_next;   \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL)\
  (head)->stqh_last = &(elm)->field.stqe_next;  \
 (listelm)->field.stqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE_HEAD(head, field) do {    \
 if (((head)->stqh_first = (head)->stqh_first->field.stqe_next)
 == NULL) \
  (head)->stqh_last = &(head)->stqh_first;   \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE(head, elm, type, field) do {   \
 if ((head)->stqh_first == (elm)) {    \
  STAILQ_REMOVE_HEAD((head), field);   \
 } else {       \
  struct type *curelm = (head)->stqh_first;  \
  while (curelm->field.stqe_next != (elm))   \
   curelm = curelm->field.stqe_next;  \
  if ((curelm->field.stqe_next =    \
```

```
   curelm->field.stqe_next->field.stqe_next) == NULL) \
      (head)->stqh_last = &(curelm)->field.stqe_next; \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->stqh_first);    \
  (var);       \
  (var) = ((var)->field.stqe_next))

#define STAILQ_FOREACH_SAFE(var, head, field, tvar)   \
 for ((var) = STAILQ_FIRST((head));    \
     (var) && ((tvar) = STAILQ_NEXT((var), field), 1);  \
     (var) = (tvar))

#define STAILQ_CONCAT(head1, head2) do {    \
 if (!STAILQ_EMPTY((head2))) {     \
  *(head1)->stqh_last
 = (head2)->stqh_first;  \
  (head1)->stqh_last = (head2)->stqh_last;  \
  STAILQ_INIT((head2));     \
 }       \
} while (/*CONSTCOND*/0)

#define STAILQ_LAST(head, type, field)     \
 (STAILQ_EMPTY((head)) ?      \
  NULL :       \
        ((struct type *)(void *)    \
  ((char *)((head)->stqh_last) - offsetof(struct type, field))))



#ifndef _KERNEL
/*
* Circular queue definitions. Do not use. We still keep the macros
* for compatibility but because of pointer aliasing issues their use
* is discouraged!
*/

/*
* __launder_type():  We use this ugly hack to work around the the compiler
* noticing that two types may not alias each other and elide tests in code.
* We hit this in the CIRCLEQ macros when comparing 'struct name *' and
* 'struct type *' (see CIRCLEQ_HEAD()).  Modern compilers (such as GCC
* 4.8) declare these comparisons as always false, causing the code to
* not run as designed.
*
* This hack is only to be used for comparisons and thus can be fully const.
```

```
 * Do not use for assignment.
*
* If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
* this by changing the head/tail sentinal values, but see the note above
* this one.
*/
static __inline const void * __launder_type(const void *);
static __inline const void *
__launder_type(const void *__x)
{
 __asm __volatile("" : "+r" (__x));
 return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)    \
 if ((head)->cqh_first != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \
       __FILE__, __LINE__);    \
 if ((head)->cqh_last != CIRCLEQ_ENDC(head) &&   \
    (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
  QUEUEDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
       __FILE__, __LINE__);
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_last != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ
 elm last %p %s:%d", \
      (elm), __FILE__, __LINE__);   \
 } else {      \
  if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
      (elm), __FILE__, __LINE__);   \
 }       \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) {  \
  if ((head)->cqh_first != (elm))    \
   QUEUEDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
      (elm), __FILE__, __LINE__);   \
 } else {      \
  if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
   QUEUEDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
      (elm), __FILE__, __LINE__);   \
 }
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)   \
 (elm)->field.cqe_next = (void *)1L;    \
 (elm)->field.cqe_prev = (void *)1L;
#else
```

```
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type)     \
struct name {        \
 struct type *cqh_first;  /*
 first element */  \
 struct type *cqh_last;  /* last element */  \
}

#define CIRCLEQ_HEAD_INITIALIZER(head)     \
 { CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type)      \
struct {        \
 struct type *cqe_next;  /* next element */  \
 struct type *cqe_prev;  /* previous element */  \
}

/*
* Circular queue functions.
*/
#define CIRCLEQ_INIT(head) do {      \
 (head)->cqh_first = CIRCLEQ_END(head);    \
 (head)->cqh_last = CIRCLEQ_END(head);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm)->field.cqe_next;  \
 (elm)->field.cqe_prev = (listelm);    \
 if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
  (head)->cqh_last = (elm);    \
 else        \
  (listelm)->field.cqe_next->field.cqe_prev = (elm); \
 (listelm)->field.cqe_next = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_BEFORE(head,
 listelm, elm, field) do {  \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field)  \
 (elm)->field.cqe_next = (listelm);    \
 (elm)->field.cqe_prev = (listelm)->field.cqe_prev;  \
 if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
```

```
 (head)->cqh_first = (elm);    \
 else       \
 (listelm)->field.cqe_prev->field.cqe_next = (elm); \
 (listelm)->field.cqe_prev = (elm);    \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next = (head)->cqh_first;   \
 (elm)->field.cqe_prev = CIRCLEQ_END(head);   \
 if ((head)->cqh_last == CIRCLEQ_ENDC(head))   \
 (head)->cqh_last = (elm);    \
 else       \
 (head)->cqh_first->field.cqe_prev = (elm);  \
 (head)->cqh_first = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do {   \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 (elm)->field.cqe_next
 = CIRCLEQ_END(head);   \
 (elm)->field.cqe_prev = (head)->cqh_last;   \
 if ((head)->cqh_first == CIRCLEQ_ENDC(head))   \
 (head)->cqh_first = (elm);    \
 else       \
 (head)->cqh_last->field.cqe_next = (elm);  \
 (head)->cqh_last = (elm);     \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_REMOVE(head, elm, field) do {    \
 QUEUEDEBUG_CIRCLEQ_HEAD((head), field)    \
 QUEUEDEBUG_CIRCLEQ_ELM((head), (elm), field)   \
 if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head))  \
 (head)->cqh_last = (elm)->field.cqe_prev;  \
 else       \
 (elm)->field.cqe_next->field.cqe_prev =   \
     (elm)->field.cqe_prev;    \
 if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))  \
 (head)->cqh_first = (elm)->field.cqe_next;  \
 else       \
 (elm)->field.cqe_prev->field.cqe_next =   \
     (elm)->field.cqe_next;    \
 QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field)   \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_FOREACH(var, head, field)    \
 for ((var) = ((head)->cqh_first);    \
 (var) != CIRCLEQ_ENDC(head);    \
```

```
 (var)
 = ((var)->field.cqe_next))

#define CIRCLEQ_FOREACH_REVERSE(var, head, field)   \
 for ((var) = ((head)->cqh_last);    \
  (var) != CIRCLEQ_ENDC(head);    \
  (var) = ((var)->field.cqe_prev))

/*
* Circular queue access methods.
*/
#define CIRCLEQ_FIRST(head)  ((head)->cqh_first)
#define CIRCLEQ_LAST(head)  ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head)  (__launder_type(head))
/* For assignments */
#define CIRCLEQ_END(head)  ((void *)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)
#define CIRCLEQ_EMPTY(head)      \
   (CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

#define CIRCLEQ_LOOP_NEXT(head, elm, field)    \
 (((elm)->field.cqe_next == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_first)     \
     : (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field)    \
 (((elm)->field.cqe_prev == CIRCLEQ_ENDC(head))   \
     ? ((head)->cqh_last)     \
     :
 (elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
```

```
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
#ifndef _SYS_CDEFS_H_
#define _SYS_CDEFS_H_

#warning usage of non-standard #include <sys/cdefs.h> is deprecated

#undef __P
#undef __PMT

#define __P(args) args
#define __PMT(args) args

#define __CONCAT(x,y) x ## y
#define __STRING(x) #x

#ifdef  __cplusplus
# define __BEGIN_DECLS extern "C" {
# define __END_DECLS }
#else
# define __BEGIN_DECLS
# define __END_DECLS
#endif

#if defined(__GNUC__) && !defined(__cplusplus)
# define __THROW __attribute__ ((__nothrow__))
# define __NTH(fct) __attribute__ ((__nothrow__)) fct
#else
```

```
# define __THROW
# define __NTH(fct)     fct
#endif

#endif /* _SYS_CDEFS_H_ */
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/* Modified by Void Linux. */
/*
* Copyright 2002 Niels Provos <provos@citi.umich.edu>
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
```

```
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* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y)      \
 ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) ||   \
  (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
#endif

/*
* This file defines data structures for different types of trees:
* splay trees and red-black trees.
*
* A splay tree is a self-organizing
 data structure.  Every operation
* on the tree causes a splay to happen.  The splay moves the requested
* node to the root of the tree and partly rebalances it.
*
* This has the benefit that request locality causes faster lookups as
* the requested nodes move to the top of the tree.  On the other hand,
* every lookup causes memory writes.
```

```
*
* The Balance Theorem bounds the total access time for m operations
* and n inserts on an initially empty tree as O((m + n)lg n).  The
* amortized cost for a sequence of m accesses to a splay tree is O(lg n);
*
* A red-black tree is a binary search tree with the node color as an
* extra attribute.  It fulfills a set of conditions:
* - every search path from the root to a leaf consists of the
*   same number of black nodes,
* - each red node (except for the root) has a black parent,
* - each leaf node is black.
*
* Every operation on a red-black tree is bounded as O(lg n).
* The maximum height of a red-black tree is 2lg (n+1).
 */

#define SPLAY_HEAD(name, type)      \
struct name {       \
 struct type *sph_root; /* root of the tree */   \
}

#define SPLAY_INITIALIZER(root)     \
 { NULL }

#define SPLAY_INIT(root) do {      \
 (root)->sph_root = NULL;     \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type)      \
struct {       \
 struct type *spe_left; /* left element */   \
 struct type *spe_right; /* right element */   \
}

#define SPLAY_LEFT(elm, field)  (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field)  (elm)->field.spe_right
#define SPLAY_ROOT(head)  (head)->sph_root
#define SPLAY_EMPTY(head)  (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do {   \
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do {   \
 SPLAY_RIGHT((head)->sph_root,
```

```
 field) = SPLAY_LEFT(tmp, field); \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 (head)->sph_root = tmp;      \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do {    \
 SPLAY_LEFT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);  \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do {    \
 SPLAY_RIGHT(tmp, field) = (head)->sph_root;   \
 tmp = (head)->sph_root;      \
 (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do {  \
 SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
 SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field);\
 SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
 SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */

#define
 SPLAY_PROTOTYPE(name, type, field, cmp)    \
void name##_SPLAY(struct name *, struct type *);   \
void name##_SPLAY_MINMAX(struct name *, int);    \
struct type *name##_SPLAY_INSERT(struct name *, struct type *);  \
struct type *name##_SPLAY_REMOVE(struct name *, struct type *);  \
        \
/* Finds the node with the same key as elm */    \
static __inline struct type *      \
name##_SPLAY_FIND(struct name *head, struct type *elm)   \
{        \
 if (SPLAY_EMPTY(head))      \
  return(NULL);      \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0)    \
  return (head->sph_root);    \
 return (NULL);       \
}        \
        \
static __inline _sys_tree_h_unused struct type *   \
name##_SPLAY_NEXT(struct name *head, struct type *elm)   \
{        \
```

```
 name##_SPLAY(head, elm);     \
 if (SPLAY_RIGHT(elm, field) != NULL) {    \
  elm = SPLAY_RIGHT(elm, field);    \
  while (SPLAY_LEFT(elm, field) != NULL) {  \
   elm = SPLAY_LEFT(elm, field);   \
  }       \
 }
 else       \
  elm = NULL;      \
 return (elm);       \
}         \
        \
static _sys_tree_h_unused __inline struct type *   \
name##_SPLAY_MIN_MAX(struct name *head, int val)   \
{         \
 name##_SPLAY_MINMAX(head, val);     \
       return (SPLAY_ROOT(head));     \
}

/* Main splay operation.
* Moves node close to the key of elm to top
*/
#define SPLAY_GENERATE(name, type, field, cmp)    \
struct type *        \
name##_SPLAY_INSERT(struct name *head, struct type *elm)  \
{         \
   if (SPLAY_EMPTY(head)) {      \
     SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
   } else {        \
     int __comp;       \
     name##_SPLAY(head, elm);     \
     __comp = (cmp)(elm, (head)->sph_root);   \
     if(__comp < 0) {      \
      SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
      SPLAY_RIGHT(elm, field) = (head)->sph_root;  \
      SPLAY_LEFT((head)->sph_root, field) = NULL;  \
     } else if (__comp > 0) {     \
      SPLAY_RIGHT(elm,
 field) = SPLAY_RIGHT((head)->sph_root, field);\
      SPLAY_LEFT(elm, field) = (head)->sph_root;  \
      SPLAY_RIGHT((head)->sph_root, field) = NULL; \
     } else       \
      return ((head)->sph_root);    \
   }         \
   (head)->sph_root = (elm);      \
   return (NULL);       \
}         \
        \
```

```
struct type *       \
name##_SPLAY_REMOVE(struct name *head, struct type *elm)  \
{       \
 struct type *__tmp;     \
 if (SPLAY_EMPTY(head))      \
  return (NULL);     \
 name##_SPLAY(head, elm);     \
 if ((cmp)(elm, (head)->sph_root) == 0) {   \
  if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
   (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
  } else {      \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
   name##_SPLAY(head, elm);   \
   SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
  }       \
  return (elm);      \
 }       \
 return (NULL);       \
}       \
       \
void        \
name##_SPLAY(struct
 name *head, struct type *elm)   \
{       \
 struct type __node, *__left, *__right, *__tmp;   \
 int __comp;       \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) {  \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) < 0){   \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if ((cmp)(elm, __tmp) > 0){   \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
```

```
    if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
 }        \
 SPLAY_ASSEMBLE(head,
 &__node, __left, __right, field);  \
}         \
        \
/* Splay with either the minimum or the maximum element   \
* Used to find minimum or maximum element in tree.   \
*/        \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{         \
 struct type __node, *__left, *__right, *__tmp;   \
\
 SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
 __left = __right = &__node;     \
\
 while (1) {       \
  if (__comp < 0) {     \
   __tmp = SPLAY_LEFT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if (__comp < 0){    \
    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKLEFT(head, __right, field);  \
  } else if (__comp > 0) {    \
   __tmp = SPLAY_RIGHT((head)->sph_root, field); \
   if (__tmp == NULL)    \
    break;     \
   if (__comp > 0) {    \
    SPLAY_ROTATE_LEFT(head, __tmp, field); \
    if (SPLAY_RIGHT((head)->sph_root,
 field) == NULL)\
     break;    \
   }      \
   SPLAY_LINKRIGHT(head, __left, field);  \
  }       \
 }        \
 SPLAY_ASSEMBLE(head, &__node, __left, __right, field);  \
}

#define SPLAY_NEGINF -1
```

```
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y)  name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y)  name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x)  (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head)    \
 for ((x) = SPLAY_MIN(name, head);   \
     (x) != NULL;     \
     (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type)     \
struct name {       \
 struct type *rbh_root; /* root of the tree */   \
}

#define RB_INITIALIZER(root)     \
 {
 NULL }

#define RB_INIT(root) do {      \
 (root)->rbh_root = NULL;    \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED  1
#define RB_ENTRY(type)      \
struct {        \
 struct type *rbe_left;  /* left element */  \
 struct type *rbe_right;  /* right element */  \
 struct type *rbe_parent; /* parent element */  \
 int rbe_color;   /* node color */  \
}

#define RB_LEFT(elm, field)  (elm)->field.rbe_left
#define RB_RIGHT(elm, field)  (elm)->field.rbe_right
#define RB_PARENT(elm, field)  (elm)->field.rbe_parent
#define RB_COLOR(elm, field)  (elm)->field.rbe_color
#define RB_ROOT(head)   (head)->rbh_root
#define RB_EMPTY(head)   (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do {     \
```

```
 RB_PARENT(elm, field) = parent;     \
 RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL;  \
 RB_COLOR(elm, field) = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do {    \
 RB_COLOR(black, field) = RB_BLACK;    \
 RB_COLOR(red, field)
 = RB_RED;     \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do {   \
 (tmp) = RB_RIGHT(elm, field);     \
 if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
  RB_PARENT(RB_LEFT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else       \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
 (head)->rbh_root = (tmp);    \
 RB_LEFT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do {   \
 (tmp) = RB_LEFT(elm, field);     \
 if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field))
 != NULL) { \
  RB_PARENT(RB_RIGHT(tmp, field), field) = (elm);  \
 }       \
 RB_AUGMENT(elm);      \
 if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
  if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
   RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
  else       \
   RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
 } else       \
```

```
 (head)->rbh_root = (tmp);    \
 RB_RIGHT(tmp, field) = (elm);     \
 RB_PARENT(elm, field) = (tmp);     \
 RB_AUGMENT(tmp);      \
 if ((RB_PARENT(tmp, field)))     \
  RB_AUGMENT(RB_PARENT(tmp, field));   \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp)    \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp)   \
 RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr)  \
attr void name##_RB_INSERT_COLOR(struct name *, struct
 type *);  \
attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *);\
attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
attr struct type *name##_RB_INSERT(struct name *, struct type *); \
attr struct type *name##_RB_FIND(struct name *, struct type *);  \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *);   \
attr struct type *name##_RB_PREV(struct type *);   \
attr struct type *name##_RB_MINMAX(struct name *, int);   \
        \

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp)    \
 RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp)   \
 RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr)  \
attr void       \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm)  \
{       \
 struct type
 *parent, *gparent, *tmp;    \
 while ((parent = RB_PARENT(elm, field)) != NULL &&  \
     RB_COLOR(parent, field) == RB_RED) {   \
  gparent = RB_PARENT(parent, field);   \
  if (parent == RB_LEFT(gparent, field)) {  \
   tmp = RB_RIGHT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
```

```
    continue;    \
   }      \
   if (RB_RIGHT(parent, field) == elm) {  \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_RIGHT(head, gparent, tmp, field); \
  } else {      \
   tmp = RB_LEFT(gparent, field);   \
   if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
    RB_COLOR(tmp, field) = RB_BLACK; \
    RB_SET_BLACKRED(parent, gparent, field);\
    elm = gparent;    \
    continue;    \
   }      \
   if (RB_LEFT(parent, field) == elm)
  {  \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp = parent;    \
    parent = elm;    \
    elm = tmp;    \
   }      \
   RB_SET_BLACKRED(parent, gparent, field); \
   RB_ROTATE_LEFT(head, gparent, tmp, field); \
  }       \
 }       \
 RB_COLOR(head->rbh_root, field) = RB_BLACK;   \
}        \
        \
attr void        \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{        \
 struct type *tmp;      \
 while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
     elm != RB_ROOT(head)) {     \
  if (RB_LEFT(parent, field) == elm) {   \
   tmp = RB_RIGHT(parent, field);   \
   if (RB_COLOR(tmp, field) == RB_RED) {  \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = RB_RIGHT(parent, field);  \
   }      \
   if ((RB_LEFT(tmp, field) == NULL ||  \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
       (RB_RIGHT(tmp, field) == NULL ||  \
```

```
      RB_COLOR(RB_RIGHT(tmp,
field), field) == RB_BLACK)) {\
   RB_COLOR(tmp, field) = RB_RED;  \
   elm = parent;    \
   parent = RB_PARENT(elm, field);  \
   } else {     \
   if (RB_RIGHT(tmp, field) == NULL || \
       RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
    struct type *oleft;  \
    if ((oleft = RB_LEFT(tmp, field)) \
        != NULL)   \
     RB_COLOR(oleft, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_RIGHT(head, tmp, oleft, field);\
    tmp = RB_RIGHT(parent, field); \
   }     \
   RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
   RB_COLOR(parent, field) = RB_BLACK; \
   if (RB_RIGHT(tmp, field))  \
    RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
   RB_ROTATE_LEFT(head, parent, tmp, field);\
   elm = RB_ROOT(head);   \
   break;     \
   }      \
  } else {      \
  tmp = RB_LEFT(parent, field);   \
  if (RB_COLOR(tmp, field) == RB_RED) {  \
   RB_SET_BLACKRED(tmp, parent, field); \
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   tmp
= RB_LEFT(parent, field);  \
   }      \
  if ((RB_LEFT(tmp, field) == NULL ||  \
      RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
      (RB_RIGHT(tmp, field) == NULL ||  \
      RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
   RB_COLOR(tmp, field) = RB_RED;  \
   elm = parent;    \
   parent = RB_PARENT(elm, field);  \
   } else {     \
   if (RB_LEFT(tmp, field) == NULL || \
       RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
    struct type *oright;  \
    if ((oright = RB_RIGHT(tmp, field)) \
        != NULL)   \
     RB_COLOR(oright, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_LEFT(head, tmp, oright, field);\
```

```
    tmp = RB_LEFT(parent, field); \
   }     \
   RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
   RB_COLOR(parent, field) = RB_BLACK; \
   if (RB_LEFT(tmp, field))  \
    RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
   RB_ROTATE_RIGHT(head, parent, tmp, field);\
   elm = RB_ROOT(head);   \
   break;     \
  }      \
 }       \
}        \
if
(elm)       \
 RB_COLOR(elm, field) = RB_BLACK;   \
}        \
       \
attr struct type *       \
name##_RB_REMOVE(struct name *head, struct type *elm)   \
{        \
 struct type *child, *parent, *old = elm;   \
 int color;       \
 if (RB_LEFT(elm, field) == NULL)    \
  child = RB_RIGHT(elm, field);    \
 else if (RB_RIGHT(elm, field) == NULL)    \
  child = RB_LEFT(elm, field);    \
 else {        \
  struct type *left;     \
  elm = RB_RIGHT(elm, field);    \
  while ((left = RB_LEFT(elm, field)) != NULL)  \
   elm = left;     \
  child = RB_RIGHT(elm, field);    \
  parent = RB_PARENT(elm, field);    \
  color = RB_COLOR(elm, field);    \
  if (child)      \
   RB_PARENT(child, field) = parent;  \
  if (parent) {      \
   if (RB_LEFT(parent, field) == elm)  \
    RB_LEFT(parent, field) = child;  \
   else      \
    RB_RIGHT(parent, field) = child; \
   RB_AUGMENT(parent);    \
  } else       \
   RB_ROOT(head)
 = child;    \
  if (RB_PARENT(elm, field) == old)   \
   parent = elm;     \
  (elm)->field = (old)->field;    \
```

```
 if (RB_PARENT(old, field)) {    \
  if (RB_LEFT(RB_PARENT(old, field), field) == old)\
   RB_LEFT(RB_PARENT(old, field), field) = elm;\
  else      \
   RB_RIGHT(RB_PARENT(old, field), field) = elm;\
  RB_AUGMENT(RB_PARENT(old, field));  \
 } else       \
  RB_ROOT(head) = elm;    \
 RB_PARENT(RB_LEFT(old, field), field) = elm;  \
 if (RB_RIGHT(old, field))    \
  RB_PARENT(RB_RIGHT(old, field), field) = elm; \
 if (parent) {      \
  left = parent;     \
  do {      \
   RB_AUGMENT(left);   \
  } while ((left = RB_PARENT(left, field)) != NULL); \
 }       \
 goto color;      \
}        \
 parent = RB_PARENT(elm, field);     \
 color = RB_COLOR(elm, field);     \
 if (child)       \
  RB_PARENT(child, field) = parent;   \
 if (parent) {       \
  if (RB_LEFT(parent, field) == elm)   \
   RB_LEFT(parent, field) = child;   \
  else       \
   RB_RIGHT(parent,
 field) = child;  \
  RB_AUGMENT(parent);     \
 } else        \
  RB_ROOT(head) = child;     \
color:         \
 if (color == RB_BLACK)      \
  name##_RB_REMOVE_COLOR(head, parent, child);  \
 return (old);       \
}        \
        \
/* Inserts a node into the RB tree */     \
attr struct type *       \
name##_RB_INSERT(struct name *head, struct type *elm)   \
{        \
 struct type *tmp;      \
 struct type *parent = NULL;     \
 int comp = 0;       \
 tmp = RB_ROOT(head);      \
 while (tmp) {       \
  parent = tmp;      \
```

```
 comp = (cmp)(elm, parent);    \
 if (comp < 0)      \
  tmp = RB_LEFT(tmp, field);   \
 else if (comp > 0)     \
  tmp = RB_RIGHT(tmp, field);   \
 else       \
  return (tmp);     \
}       \
RB_SET(elm, parent, field);     \
if (parent != NULL) {      \
 if (comp < 0)      \
  RB_LEFT(parent, field) = elm;   \
 else       \
  RB_RIGHT(parent, field) = elm;   \
 RB_AUGMENT(parent);     \
} else       \
 RB_ROOT(head) = elm;     \
name##_RB_INSERT_COLOR(head,
elm);    \
return (NULL);       \
}       \
       \
/* Finds the node with the same key as elm */    \
attr struct type *       \
name##_RB_FIND(struct name *head, struct type *elm)   \
{       \
 struct type *tmp = RB_ROOT(head);    \
 int comp;       \
 while (tmp) {       \
  comp = cmp(elm, tmp);     \
  if (comp < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else if (comp > 0)     \
   tmp = RB_RIGHT(tmp, field);   \
  else       \
   return (tmp);     \
 }       \
 return (NULL);       \
}       \
       \
/* Finds the first node greater than or equal to the search key */ \
attr struct type *       \
name##_RB_NFIND(struct name *head, struct type *elm)   \
{       \
 struct type *tmp = RB_ROOT(head);    \
 struct type *res = NULL;     \
 int comp;       \
 while (tmp) {       \
```

```
 comp = cmp(elm, tmp);     \
 if (comp < 0) {      \
  res = tmp;     \
  tmp = RB_LEFT(tmp, field);   \
 }       \
 else if (comp > 0)     \
  tmp =
RB_RIGHT(tmp, field);   \
 else       \
  return (tmp);     \
}       \
return (res);       \
}       \
       \
/* ARGSUSED */       \
attr struct type *       \
name##_RB_NEXT(struct type *elm)     \
{       \
 if (RB_RIGHT(elm, field)) {     \
  elm = RB_RIGHT(elm, field);    \
  while (RB_LEFT(elm, field))    \
   elm = RB_LEFT(elm, field);   \
 } else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
   elm = RB_PARENT(elm, field);   \
  else {       \
   while (RB_PARENT(elm, field) &&   \
       (elm == RB_RIGHT(RB_PARENT(elm, field), field)))\
    elm = RB_PARENT(elm, field);  \
   elm = RB_PARENT(elm, field);   \
  }       \
 }       \
 return (elm);       \
}       \
       \
/* ARGSUSED */       \
attr struct type *       \
name##_RB_PREV(struct type *elm)     \
{       \
 if (RB_LEFT(elm, field)) {     \
  elm = RB_LEFT(elm, field);    \
  while (RB_RIGHT(elm, field))    \
   elm = RB_RIGHT(elm, field);   \
 }
 else {       \
  if (RB_PARENT(elm, field) &&    \
      (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
```

```
  elm = RB_PARENT(elm, field);   \
 else {      \
  while (RB_PARENT(elm, field) &&   \
      (elm == RB_LEFT(RB_PARENT(elm, field), field)))\
   elm = RB_PARENT(elm, field);  \
  elm = RB_PARENT(elm, field);   \
 }       \
}       \
return (elm);       \
}       \
       \
attr struct type *       \
name##_RB_MINMAX(struct name *head, int val)    \
{       \
 struct type *tmp = RB_ROOT(head);    \
 struct type *parent = NULL;     \
 while (tmp) {       \
  parent = tmp;      \
  if (val < 0)      \
   tmp = RB_LEFT(tmp, field);   \
  else       \
   tmp = RB_RIGHT(tmp, field);   \
 }       \
 return (parent);      \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x,
 y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x)  name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x)  name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head)     \
 for ((x) = RB_MIN(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y)     \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))
```

```
#define RB_FOREACH_SAFE(x, name, head, y)    \
 for ((x) = RB_MIN(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE(x, name, head)    \
 for ((x) = RB_MAX(name, head);     \
      (x) != NULL;      \
      (x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y)    \
 for ((x) = (y);       \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name,
 head, y)   \
 for ((x) = RB_MAX(name, head);     \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
      (x) = (y))

#endif /* _SYS_TREE_H_ */
pkgname=linux-headers
pkgver=6.14.2 # Follow the latest Linux stable
_kernver=${pkgver%.*}
pkgrel=0
pkgdesc="Linux system headers"
url="https://kernel.org/"
arch="all" # Headers are architecture specific
license="GPL-2.0-only"
makedepends="perl"
options="!check !dbg !strip !tracedeps !archcheck"
source="https://kernel.org/pub/linux/kernel/v6.x/linux-$_kernver.tar.xz
 revert-broken-uapi.patch
 0003-remove-inclusion-of-sysinfo.h-in-kernel.h.patch
```

1.1070 jsonpickle 4.1.1

1.1070.1 Available under license :

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1.1071 py3-setuptools 80.9.0-r0

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The code contained in this directory was automatically generated using the
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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t distutils=setuptools/config/distutils.schema.json

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
(or to the relevant plugin repository)

- https://github.com/abravalheri/validate-pyproject/issues

***

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- `__init__.py`
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***

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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

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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 https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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 https://opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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(1) GPL-compatible doesn't mean that we're distributing Python under
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other software that is released under the GPL; the others don't.

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

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

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

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1.3 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	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
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2.7	2.6	2010	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for
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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
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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.1076 procps 4.0.4-r3

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1.1079 google-auth 2.40.3

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1.1080 curl 8.14.1-r0

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1.1081 python 3.12.11-r0

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

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

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

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

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Thanks to the many outside volunteers who have worked under Guido's
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Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in
    text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>

  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
 * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
 * Fixed warnings about generated constructors not explicitly initializing
   all fields (only present with certain compiler settings).
 * Added generation of field number constants.
Wink Saville <wink@google.com>
 * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
 * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
 * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
 * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
 * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
  * Detect whether zlib is new enough in configure script.
 * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
 * Optimize Java serialization code when writing a small message to a stream.
 * Optimize Java serialization of strings so that UTF-8 encoding happens only
   once per string per serialization call.
 * Clean up some Java warnings.
 * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
 * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
 * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
 * Fixed detection of sched_yield on Solaris.
 * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
 * Fixed minor IBM xlC compiler build issues
 * Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
 * Provide a type alias field ValueType
on EnumTypeWrapper
 * Match service argument names to abstract interface

1.1098 python-certifi 2025.8.3

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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.1100 spring-boot-loader-tools 2.6.2

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1.1102 tornado 6.5.2

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1.1104 protobuf 6.32.0

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1.1105 bouncycastle-fips 1.0.2.6

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1.1106 python-requests 2.32.5

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1.1107 msgpack 24.3.1-3.ph5

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