



Open Source Used In Crosswork Platform Infrastructure 7.1.0-geo- infra-dockerimages

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1.310 postgres-sql 42.7.5

1.310.1 Available under license

1.311 idna 3.4

1.311.1 Available under license

1.312 hibernate 6.5.3.Final

1.312.1 Available under license

1.313 packaging 24.1

1.313.1 Available under license

1.314 gettext 0.22.5-r0

1.314.1 Available under license

1.315 xz 5.6.3-r0

1.315.1 Available under license

1.316 ca-certificates-bundle 20241121-r1

1.316.1 Available under license

1.317 simpleclient_tracer_otel 0.16.0

1.317.1 Available under license

1.318 jackson-dataformat-toml 2.17.3

1.318.1 Available under license

1.319 apache-servicemix-bundles-kafka-clients 3.8.1_1

1.319.1 Available under license

1.320 j2objc-annotations 2.8

1.320.1 Available under license

1.321 springdoc-openapi-starter-webmvc-ui 2.6.0

1.321.1 Available under license

1.322 spring-aop 6.1.19

1.322.1 Available under license

1.323 log4j-jul 2.23.1

1.323.1 Available under license

1.324 packaging 24.2

1.324.1 Available under license

1.325 hazelcast 5.4.0

1.325.1 Available under license

1.326 wget 1.25.0-r1

1.326.1 Available under license
1.327 attoparser 2.0.7.RELEASE
1.327.1 Available under license
1.328 libfontenc 1.1.8-r0
1.328.1 Available under license
1.329 zlib 1.3.1-r2
1.329.1 Available under license
1.330 python 3.12.9-r0
1.330.1 Available under license
1.331 spring-expression 6.1.19
1.331.1 Available under license
1.332 iputils 20240905-r0
1.332.1 Available under license
1.333 lz4-java 1.8.0
1.333.1 Available under license

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

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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

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal

documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
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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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

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REFERENCES

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We

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard",

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

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

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

The

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

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

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

Literature Department

C-Cube Microsystems, Inc.

1778 McCarthy Blvd.

Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at

<ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://ftp.sgi.com) or

from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision

of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library

uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't

have

direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only [ftp.uu.net](ftp://ftp.uu.net) is guaranteed to have the latest official version.

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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

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

notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS

=====

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 nose 1.3.7

1.2.1 Available under license :

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Version 2.1, February 1999

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

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

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

Any executables

containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.3 lz4 1.9.3

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LZ4 Library

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: liblz4

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

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

Files: *

1.4 free-type 2.13.2

1.4.1 Available under license :

```
# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns (relative to the top-level directory),
# including the comment lines; this means that e.g. `FTL.TXT' matches all
# files that have this string in the file name (including the path relative
# to the current directory, always starting with `./').
#
# Don't put empty lines into this file!
#
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/bdfplib.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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o freetype@nongnu.org

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o freetype-devel@nongnu.org

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--- end of FTL.TXT ---

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```
Gnomovision version 69, Copyright (C) year name of author
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.5 libcxxabi 1.1.10.5

1.5.1 Available under license :

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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/x86_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xerial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macosx;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dylib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch64/libsnappyjava.dylib;osname=macosx;processor=aarch64,org/xerial/snappy/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/libsnappyjava.so;osname=linux;processor=x86,org/xerial/snappy/native/Linux/aarch64/libsnappyjava.so;osname=linux;processor=aarch64,org/xerial/snappy/native/Linux/riscv64/libsnappyjava.so;osname=linux;processor=riscv64,org/xerial/snappy/native/Linux/arm/libsnappyjava.so;osname=linux;processor=arm,org/xerial/snappy/native/Linux/armv7/libsnappyjava.so;osname=linux;processor=arm_le,org/xerial/snappy/native/Linux/ppc64/libsnappyjava.so;osname=linux;processor=ppc64le,org/xerial/snappy/native/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x,org/xerial/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=sunos;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.so;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.snappy.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.native.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.snappy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.native.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.native.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.x86_64,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xerial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.aarch64,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-jar/META-INF/MANIFEST.MF

1.6 free-type 2.13.2-r0

1.6.1 Available under license :

```
# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns (relative to the top-level directory),
# including the comment lines; this means that e.g. `FTL.TXT' matches all
# files that have this string in the file name (including the path relative
# to the current directory, always starting with `./').
#
# Don't put empty lines into this file!
#
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/bdfplib.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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1.10 zstd-jni 1.5.6-4

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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 fast and high compression lossless algorithm for Java and all JVM languages.
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 Export-Package: com.github.luben.zstd;version="1.5.6.4",com.github.luben.zstd.util;version="1.5.6.4"
 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))"

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1.11 zstd 1.5.6

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1.12 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

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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
ogle/error-prone.git/error_prone_annotations",tag=HEAD

Bundle-SymbolicName: com.google.errorprone.annotations

Bundle-Vendor: Google LLC

Bundle-Version: 2.28.0
Export-Package: com.google.errorprone.annotations;uses:="javax.lang.model.element";version="2.28.0",com.google.errorprone.annotations.concurrent;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

1.13 jackson-module-parameter-names 2.17.3

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1.15 jackson-datatype-jsr310 2.17.3

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1.16 jvm-hotspot-amazon 17.0.14u7

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xwd v1.0.7

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Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
Owen Taylor
Roderick Sheeter
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Simon Hausmann
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Main Author

Marti Maria

Contributors

Bob Friesenhahn

Kai-Uwe Behrmann

Stuart Nixon

Jordi Vilar

Richard Hughes

Auke Nauta

Chris Evans (Google)

Lorenzo Ridolfi

Robin Watts (Artifex)

Shawn Pedersen

Andrew Brygin

Samuli Suominen

Florian Hch

Aurelien Jarno

Claudiu Cebuc

Michael Vhrel (Artifex)

Michal Cihar

Daniel Kaneider

Mateusz

Jurczyk (Google)

Paul Miller

Sbastien Lon

Christian Schmitz

XhmikosR

Stanislav Brabec (SuSe)

Leonhard Gruenschloss (Google)
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Christopher James Halse Rogers
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SipHash v1.0-68c8a7c

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jQuery UI v1.13.2

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== Authors ==

Gershon Elber <gershon[AT]cs.technion.sc.il>
original giflib code

Toshio Kuratomi <toshio[AT]tiki-lounge.com>
uncompressed gif writing code
former maintainer

Eric Raymond <esr[AT]snark.thyrsus.com>
current as well as long time former maintainer of giflib code

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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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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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* /micrometer-observation-1-13-13-sources-
jar/io/micrometer/observation/aop/ObservedAspectObservationDocumentation.java
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jar/io/micrometer/observation/transport/RequestReplySenderContext.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/annotation/package-info.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/package-info.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/GlobalObservationConvention.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/SimpleObservation.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/transport/Propagator.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/ObservationConvention.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/ObservationTextPublisher.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/NoopObservation.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/transport/package-info.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/contextpropagation/package-info.java
*
/micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/ObservationView.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/ObservationHandler.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/transport/ReceiverContext.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/NoopObservationConfig.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/NoopObservationConvention.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/ObservationFilter.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/aop/ObservedAspect.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/aop/package-info.java
* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/annotation/Observed.java
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*
/micrometer-observation-1-13-13-sources-
jar/io/micrometer/observation/transport/RequestReplyReceiverContext.java
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* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/KeyValuesConvention.java
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* /micrometer-observation-1-13-13-sources-jar/io/micrometer/observation/transport/ResponseContext.java
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jar/io/micrometer/observation/contextpropagation/ObservationThreadLocalAccessor.java
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1.21 micrometer-commons 1.13.13

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- * /micrometer-commons-1-13-13-sources-jar/io/micrometer/common/util/internal/logging/JdkLoggerFactory.java
- * /micrometer-commons-1-13-13-sources-jar/io/micrometer/common/util/internal/logging/AbstractInternalLogger.java
- * /micrometer-commons-1-13-13-sources-jar/io/micrometer/common/util/internal/logging/Slf4JLoggerFactory.java
- * /micrometer-commons-1-13-13-sources-jar/io/micrometer/common/util/internal/logging/InternalLogLevel.java
- * /micrometer-commons-1-13-13-sources-jar/io/micrometer/common/util/internal/logging/InternalLoggerFactory.java

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* /micrometer-commons-1-13-13-sources-jar/io/micrometer/common/annotation/NoOpValueResolver.java

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* /micrometer-commons-1-13-13-sources-jar/io/micrometer/common/lang/NonNull.java

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1.23 asia-geomaps 2.0.0

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1.28 russia-geomaps 2.0.0

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1.34 europe-p-geomaps 2.0.0

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1.37 europe-g-geomaps 2.0.0

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1.43 font-liberation 2.1.5-r2

1.43.1 Available under license :

```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
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: Maxim Karasev <begs@disroot.org>
# Maintainer: Maxim Karasev <begs@disroot.org>
pkgname=bsd-games
pkgver=3.2
pkgrel=0
pkgdesc="traditional text mode games from BSD"
url="https://github.com/msharov/bsd-games"
arch="all"
license="BSD-3-Clause"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://github.com/msharov/bsd-games/archive/v$pkgver/bsd-games-$pkgver.tar.gz"
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 \
        --localstatedir=/var/lib # it really shouldn't be in /var
    make
}

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="
cf5f5a9e5d215ee553486580f9a7dfc9801d254a2806172df201dfc42ecbb05326db7bc25b7624eb8a8e541ad61ec319d
258687609bddae2bc07edcbade2291a bsd-games-3.2.tar.gz"

```

"

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```
# Automatically generated by apkbuidl-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bud-resource
_pkgreal=Bud-Resource
pkgver=1.2911
pkgrel=6
pkgdesc="Perl extension implements the Bud process resource limit functions"
url="https://metacpan.org/release/Bud-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/_pkgreal-$pkgver.tar.gz"

builddir="$srcdir/_pkgreal-$pkgver"

prepare() {
    default_prepare

    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make
}

check() {
    make test
}

package() {
    make DESTDIR="$pkgdir" install
    find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
```

```

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.16
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 rdft 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="$pkgname"
    mkdir -p "$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="
1bfd5250bcd36d30f8406e12cfbfc033743e2a323fdf5c5ca869954d997d420b377c56ca3138b533a7353ce01a492f215
dcfa1be4f1558da7dac3a090227ab46 license-list-data-3.16.tar.gz

```

1.44 utmps-libs 0.1.2.3-r2

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1.45 thymeleaf-spring6 3.1.3.RELEASE

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1.46 ttf-liberation 2.1.5-r2

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pkgdesc="A set of free high-quality TrueType fonts covering the UCS character set"
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options="!check" # No test suite.
depends="fontconfig encodings mkfontdir mkfontscale"
makedepends="font-util-dev"
source="https://ftp.gnu.org/gnu/freefont/freefont-ttf-$pkgver.zip"
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1.47 jakarta xml bind api 4.0.2

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1.48 bridgeutils 1.37.0-r8

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1.49 ncurses 6.5_p20241006-r3

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1.51 micrometer-registry-prometheus 1.13.13

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* /micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/ExemplarSamplerFactory.java
* /micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/DefaultExemplarSamplerFactory.java
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* /micrometer-registry-prometheus-1-13-13-sources-jar/io/micrometer/prometheusmetrics/PrometheusCounter.java
* /micrometer-registry-prometheus-1-13-13-sources-jar/io/micrometer/prometheusmetrics/PrometheusConfig.java
* /micrometer-registry-prometheus-1-13-13-sources-jar/io/micrometer/prometheusmetrics/PrometheusTimer.java
*
/micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/PrometheusDurationNamingConvention.java
* /micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/PrometheusMeterRegistry.java
* /micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/PrometheusNamingConvention.java
* /micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/PrometheusDistributionSummary.java
* /micrometer-registry-prometheus-1-13-13-sources-jar/io/micrometer/prometheusmetrics/MicrometerCollector.java
* /micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/PrometheusRenameFilter.java
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Found in path(s):

```

* /micrometer-registry-prometheus-1-13-13-sources-
jar/io/micrometer/prometheusmetrics/PrometheusHistogram.java

```

1.52 checker-qual 3.48.3

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1.53 gdbm 1.24-r0

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1.54 txw2 4.0.5

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1.55 flyway-database-postgresql 10.10.0

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* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/cockroachdb/CockroachDBConnection.java
* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/postgresql/PostgreSQLCopyParsedStatement.java
* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/cockroachdb/CockroachDBDatabase.java
* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/cockroachdb/CockroachDBDatabaseType.java
* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/postgresql/PostgreSQLConfigurationExtension.java
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*
/flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/postgresql/package-info.java
* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/cockroachdb/CockroachDBSchema.java
* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/postgresql/PostgreSQLType.java
* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/cockroachdb/CockroachRetryingTransactionalExecutionTemplate.java
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* /flyway-database-postgresql-10-10-0-sources-1-jar/org/flywaydb/database/postgresql/TransactionalModel.java
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1.56 hdrhistogram 2.2.2

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1.57 jackson 2.17.3

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1.58 asm 8.0.1

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* /asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/package.html

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```

Found in path(s):

```
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Label.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ConstantDynamic.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/CurrentFrame.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/MethodWriter.java
*
/asm-8-0-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/RecordComponentVisitor.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Frame.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Type.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/TypeReference.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ModuleVisitor.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Handle.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Opcodes.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Handler.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ClassTooLargeException.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Constants.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/MethodTooLargeException.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Attribute.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Symbol.java
*
/asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ClassReader.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Edge.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ModuleWriter.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/FieldWriter.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/SymbolTable.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Context.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ByteVector.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/RecordComponentWriter.java
```

1.59 alpine-keys 2.5-r0

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=alpine-keys

pkgver=2.5

pkgrel=0

pkgdesc="Public keys for Alpine Linux packages"

url="https://alpinelinux.org"

we install arch specific keys to /etc so we cannot do arch=noarch

arch="all"

license="MIT"

replaces="alpine-base"

1.60 python-requests 2.32.3

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Requests

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1.61 drill 1.8.4-r0

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*/

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* /everit-json-schema-1-14-4-sources-1-jar/org/everit/json/schema/internal/JSONWriter.java

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<!--

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*/

Found in path(s):

* /everit-json-schema-1-14-4-sources-1-jar/org/everit/json/schema/JSONPointer.java

* /everit-json-schema-1-14-4-sources-1-jar/org/everit/json/schema/JSONPointerException.java

1.64 javax-activation 2.1.3

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- * Source: <http://hg.openjdk.java.net/code-tools/jtharness/>

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- * License: Eclipse Public License

normalize.css (3.0.2)

- * License: MIT
- * Project:
<http://necolas.github.io/normalize.css/>
- * Source: <http://necolas.github.io/normalize.css/>

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- * Project: <https://wiki.openjdk.java.net/display/CodeTools/sigtest>
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1.65 shadow 4.16.0-r1

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Contributor: Patrycja Rosa <alpine@ptrcnnull.me>

Maintainer: Patrycja Rosa <alpine@ptrcnnull.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_PERLLLOCAL=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-gp517 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() {
  gp517 build-wheel \
    --wheel-dir .dist \
    --output-fd 3 3>&1 >&2
}

package() {
  gp517 install-wheel --destdir "$pkgdir" \
    .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dced6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhruvin>
# 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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```

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```

# 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 rdft 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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1.66 simpleclient-servlet 0.16.0

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Found in path(s):

* /simpleclient-servlet-0-16-0-sources-3-jar/META-INF/maven/io.prometheus/simpleclient_servlet/pom.xml

1.67 jackson-dataformat-yaml 2.17.3

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1.68 ssl-client 1.37.0-r12

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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"
buildddir="$srcdir/${_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
"

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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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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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like this

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of
Vice
```

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```
# 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 \  
    --sourcedir=/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  
"
```

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

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vintagedreamworks@hotmail.com

<http://www.geocities.com/SiliconValley/Campus/8645/index.html>

<http://members.nbci.com/silicon39/>

<http://www.mp3.com/silicon39>

<https://analoguesque.x10host.com/>

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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 rdft 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
<http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html>
 # Contributor: Dhruvin Gandhi <contact@dhruvin>
 # 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
"
```

1.69 musl-obstack 1.2.3-r2

1.69.1 Available under license :

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USA.

1.70 java-nats-streaming 2.2.3

1.70.1 Available under license :

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* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Sample.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/ConnectionLostHandler.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/package-info.java
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* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Utils.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnectionFactory.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnection.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/SubscriptionImpl.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/StanBench.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/MessageHandler.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/Publisher.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/SubscriptionOptions.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnectionImpl.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/NatsStreaming.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/AckHandler.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
*
/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Benchmark.java

```

1.71 thymeleaf 3.1.3.RELEASE

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* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/expression/Messages.java

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- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/model/IModelVisitor.java
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- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/NullTokenExpression.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/TextElementName.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/model/IProcessableElementTag.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/ProcessingInstructionStructureHandler.java
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- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/messageresolver/StandardMessageResolutionUtils.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templateparser/raw/RawTemplateParser.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templateparser/text/CommentProcessorTextHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/cache/NonCacheableCacheEntryValidity.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/expression/Dates.java
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- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templatereolver/UrlTemplateResolver.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templateparser/text/TextParsingUtil.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/serializer/StandardJavaScriptSerializer.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/AbstractTemplateEvent.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/LinkExpression.java
- *
- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardXmlBaseTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/processor/text/ITextStructureHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardInlineTextualTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/OGNLShortcutExpression.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/dialect/IProcessorDialect.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/DialectConfiguration.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/IStandardExpression.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/serializer/StandardSerializers.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardAttrappendTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/RemainderExpression.java
- *
- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/MapUtils.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/standard/expression/MultiplicationDivisionRemainderExpression.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/StandaloneElementTagModelProcessable.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/processor/element/IElementModelStructureHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardInliningCommentProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardMethodTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/processor/xmldeclaration/AbstractXMLDeclarationProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templatereource/ITemplateResource.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/LoggingUtils.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/standard/processor/AbstractStandardDoubleAttributeModifierTagProcessor.java
- *
- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/inline/StandardHTMLInliner.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/AndExpression.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templateparser/raw/RawParseException.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templatereolver/StringTemplateResolver.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/context/IEExpressionContext.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/templateparser/reader/PrototypeOnlyCommentTextReader.java

- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templateparser/text/InlinedOutputExpressionTextHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/Expression.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/processor/xmldeclaration/IXMLDeclarationStructureHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/NegationExpression.java
- *
- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/AttributeDefinitions.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardUnlessTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/Attributes.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/context/IEngineContextFactory.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/AbstractGatheringModelProcessable.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/TemplateSpec.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/dialect/IDialect.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardActionTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/inline/NoOpInliner.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/expression/Arrays.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/expression/IExpressionObjectFactory.java
- *
- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/inline/StandardJavaScriptInliner.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/processor/doctype/IDocTypeStructureHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/serializer/StandardCSSSerializer.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/context/WebEngineContext.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/linkbuilder/StandardLinkBuilder.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/model/IModel.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/model/IComment.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/TemplateEndModelProcessable.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/TemplateBoundariesStructureHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/OGNLContextPropertyAccessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/expression/Strings.java
- *
- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/IEngineProcessable.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/processor/templateboundaries/AbstractTemplateBoundariesProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/ProcessingInstruction.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/engine/ProcessorExecutionVars.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/inline/IInlinePreProcessorHandler.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/standard/inline/OutputExpressionInlinePreProcessorHandler.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardSrcTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templateparser/text/TextParser.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/templateparser/text/TextParsingAttributeSequenceUtil.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/expression/IStandardConversionService.java
- *
- /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/expression/Sets.java
- * /thymeleaf-3-1-3-release-sources-
- jar/org/thymeleaf/standard/processor/StandardDOMEventAttributeTagProcessor.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/linkbuilder/ILinkBuilder.java
- * /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/postprocessor/PostProcessor.java


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* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/messageresolver/IMessageResolver.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardHrefTagProcessor.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/CharArrayWrapperSequence.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/IWebSession.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardBlockTagProcessor.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/standard/processor/StandardAssertTagProcessor.java
* /thymeleaf-3-1-3-release-sources-
jar/org/thymeleaf/standard/processor/AbstractStandardExpressionAttributeTagProcessor.java
```

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```
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* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebExchange.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebRequest.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebSession.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/JakartaServletWebRequest.java
```

* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/JakartaServletWebApplication.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/ExpressionUtils.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebApplication.java
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```
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*
/thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/temporal/TemporalCreationUtils.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/temporal/TemporalFormattingUtils.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/temporal/TemporalObjects.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/temporal/TemporalListUtils.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/expression/Temporals.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/util/temporal/TemporalSetUtils.java
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/thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/IServletWebRequest.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/IServletWebApplication.java
* /thymeleaf-3-1-3-release-sources-jar/org/thymeleaf/web/servlet/IServletWebSession.java
```

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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/BooleanArrayList.java
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1.75 openssl 3.3.3-r0

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1.76 curl 8.12.1-r0

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1.77 xz-libs 5.6.3-r0

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1.78 py3-pip 24.3.1-r0

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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
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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.79 prometheus-metrics-shaded-protobuf

1.2.1

1.79.1 Available under license :

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1.80 bzip2 1.0.8-r6

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.81 jakarta-validation-api 3.0.2

1.81.1 Available under license :

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```
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~
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-->
<![CDATA[
Comments to: <a href="mailto:bean-validation-dev@eclipse.org">bean-validation-dev@eclipse.org</a>.<br>
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```

Found in path(s):

* /jakarta-validation-api-3-0-2-sources-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
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```
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*
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*/
```

Found in path(s):

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ValidateUnwrappedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertTrue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Positive.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Digits.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Min.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/package-info.java
*

```

/jakarta-validation-api-3-0-2-sources-jar/module-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Configuration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/Default.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotBlank.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMin.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstraintDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Payload.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/BootstrapState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ParameterNameProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/Scope.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationProviderResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotEmpty.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ExtractedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/UnexpectedTypeException.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/BootstrapConfiguration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ReturnValueDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/GenericBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertFalse.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/Unwrapping.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ReportAsSingleViolation.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Constraint.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/TraversableResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/NoProviderFoundException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Null.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Path.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validation.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractorDefinitionException.java

```



```

*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Max.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PastOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Negative.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerElementTypeDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstructorDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Email.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Pattern.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ElementKind.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotNull.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ElementDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Past.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ClockProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Size.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PositiveOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/ProviderSpecificBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Future.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMax.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupSequence.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ConfigurationState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/BeanDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/ConvertGroup.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ValidationProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/MessageInterpolator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractor.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolation.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/UnwrapByDefault.java
* /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
```

1.82 py3-parsing-pyc 3.1.4-r0

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1.83 protobuf-java 3.25.5

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Found in path(s):

```
* /protobuf-java-3-25-5-jar/google/protobuf/type.proto
```

- * /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
- *
- /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/>
 Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>
 Bundle-ManifestVersion: 2
 Bundle-Name: Protocol Buffers [Core]
 Bundle-SymbolicName: com.google.protobuf
 Bundle-Version: 3.25.5
 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;resolution:=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

Found in path(s):

- * /protobuf-java-3-25-5-jar/META-INF/MANIFEST.MF

1.84 swagger-core-jakarta 2.2.22

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1.85 micrometer-commons 1.13.13

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1.86 commons-lang3 3.14.0

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1.88 jakarta-inject-api 2.0.1

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1.90 jackson-jr-objects 2.14.2

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@subheading END OF TERMS AND CONDITIONS

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@iftex

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@ifinfo

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

@smallexample

@var{one line to give the program's name
and a brief idea of what it does.}

Copyright (C) @var{yyyy} @var{name of author}

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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
```

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `@samp{show w}` 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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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
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The following parts are under the LGPL, see file intl/COPYING.LIB:

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
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Version 3, 29 June 2007

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1.93 json-smart 2.5.2

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```
* /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
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1.94 jackson-module-parameter-names 2.17.3

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1.95 ehcache 2.6.11

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1.97 jackson-datatype-jdk8 2.17.3

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1.98 accessors-smart 2.5.2

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.103 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>"  
RetValRef(a) ::= "localctx.<a.escapedName>"  
QRetValRef(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

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```
/*
```

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

```
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```

```
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```

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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

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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

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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<Iname; format="cap">(Context\<Iname; 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::$satn;
}

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,postamble) ::= <<
/**
 * @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>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(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

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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 {

```

```

/*

```

```

[The "BSD license"]

```

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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

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```
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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="\n">

>>

```

```

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>"
RetValRef(a) ::= "localctx.<a.escapedName>"
QRetValRef(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"

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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):

```

*
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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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*/

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);
```

```
/**
```

```
 * @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>"
RetValRef(a) ::= "_localctx.<a.escapedName>"
QRetValRef(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"
```

Found in path(s):

```
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
```

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```

/*
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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

/** 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):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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*/

```

Found in path(s):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/TypeScriptTarget.java

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```

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*/

Found in path(s):

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

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- * /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/EventManager.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

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* /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
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
* /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
*
/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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```

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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):
 * /antlr4-4-13-0-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

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

```

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```

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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="\n">
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="\n">
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="\n">

>>

```

```

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>"
RetValRef(a) ::= "localctx.<a.escapedName>"
QRetValRef(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"
```

Found in path(s):

```
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
```

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 */
```

Found in path(s):

```
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```

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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">
>>
```

Found in path(s):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/depend.stg

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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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```

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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 also 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-\uEFFFE] ;

```

```

// -----
// 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{xxxxxxx},
// 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/ANTLR Lexer.g

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

/*

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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..

```

```

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,
    <p.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>"
RetValRef(a) ::= "_localctx.<a.escapedName>"
QRetValRef(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

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg

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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')+
;

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
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```

```

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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>"
RetValRef(a) ::= "_localctx.<a.escapedName>"
QRetValRef(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>\>(0);
}
>>
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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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLR Lexer.java

1.104 spring-data-jpa 3.3.11

1.104.1 Available under license :

Spring Data Envers 2.6 M3 (2021.1.0)

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Other developers who have contributed code are:

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1.107 htop 3.3.0-r0

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1.108 pam 1.6.1-r1

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1.109 libpsl 0.21.5-r3

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1.110 libcrypto3 3.3.3-r0

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```
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```

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`validate-pyproject`

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1.112 platformdirs 2.6.2

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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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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
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0.9.0 thru 1.2		1991-1995 CWI	yes	
1.3 thru 1.5.2	1.2	1995-1999 CNRI	yes	
1.6	1.5.2	2000 CNRI	no	
2.0	1.6	2000 BeOpen.com	no	
1.6.1	1.6	2001 CNRI	yes (2)	
2.1	2.0+1.6.1	2001 PSF	no	
2.0.1	2.0+1.6.1	2001 PSF	yes	
2.1.1	2.1+2.0.1	2001 PSF	yes	
2.1.2	2.1.1	2002 PSF	yes	
2.1.3	2.1.2	2002 PSF	yes	
2.2 and above	2.1.1	2001-now		
PSF			yes	

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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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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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1.114 ini4j 0.5.4

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-->

Found in path(s):

- * /ini4j-0-5-4-sources-jar/org/ini4j/package.html
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/package.html

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- */

Found in path(s):

- * /ini4j-0-5-4-sources-jar/org/ini4j/Config.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/CommonMultiMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Registry.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicRegistryKey.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Reg.java
- *
- /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniSource.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractProfileBuilder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Persistable.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniHandler.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicProfile.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/CommentedMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniFormatter.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/BeanTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicOptionMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicRegistry.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/MultiMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/UnicodeInputStreamReader.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractFormatter.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsBuilder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsFormatter.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Profile.java
- *
- /ini4j-0-5-4-sources-jar/org/ini4j/IniPreferencesFactory.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/ServiceFinder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/InvalidFileFormatException.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/BeanAccess.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsHandler.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/IniPreferences.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicMultiMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Wini.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicProfileSection.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractBeanInvocationHandler.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/HandlerBase.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/TypeValuesPair.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/Warnings.java

- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/RegEscapeTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/OptionMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/RegBuilder.java
- *
- /ini4j-0-5-4-sources-jar/org/ini4j/spi/EscapeTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/WinEscapeTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/ConfigParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniBuilder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Configurable.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Ini.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Options.java

1.115 tomcat 10.1.40

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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
- javaee_8.xsd

- web-app_4_0.xsd
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- javaee_web_services_1_3.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
- 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
- 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
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- jakarta_web-services_client_2_0.xsd
- jsp_3_0.xsd
- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
- web-fragment_5_0.xsd
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1.116 c-ares 1.34.3-r0

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1.117 snappy-java 1.1.10.5

1.117.1 Available under license :

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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 library

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/x86_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=x86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macosx;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dylib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch64/libsnappyjava.dylib;osname=macosx;processor=aarch64,org/xerial/snappy/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/libsnappyjava.so;osname=linux;processor=x86,org/xerial/snappy/native/Linux/aarch64/libsnappyjava.so;osname=linux;processor=aarch64,org/xerial/snappy/native/Linux/riscv64/libsnappyjava.so;osname=linux;processor=riscv64,org/xerial/snappy/native/Linux/arm/libsnappyjava.so;osname=linux;processor=arm,org/xerial/snappy/native/Linux/armv7/libsnappyjava.so;osname=linux;processor=arm_le,org/xerial/snappy/native/Linux/ppc64/libsnappyjava.so;osname=linux;processor=ppc64le,org/xerial/snappy/native/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x,org/xerial/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=sunos;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.so;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.snappy.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.native.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.snappy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.native.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.native.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.x86,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xerial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.aarch64,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

1.118 inotify 0.2.10

1.118.1 Available under license :

UNRECOGNIZED LICENSE; MD5 sum: 5cb13b05a253faf9cc933f3a438f1e2c

1.119 snake-yaml 2.7

1.119.1 Available under license :

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Found in path(s):

* /snakeyaml-engine-2-7-sources-jar/META-INF/maven/org.snakeyaml/snakeyaml-engine/pom.xml

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Found in path(s):

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/parser/VersionTagsTuple.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/comments/CommentType.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/schema/Schema.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/json/ConstructYamlJsonFloat.java

*

/snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/FlowSequenceStartToken.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/lowlevel/Parse.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/emitter/Emitable.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/UriEncoder.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/CommentToken.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/BlockSequenceStartToken.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/BlockMappingStartToken.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/KeyToken.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/json/ConstructYamlBinary.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/MarkedYamlEngineException.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/FlowSequenceEndToken.java

*

/snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/NodeTuple.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/ImplicitTuple.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/emitter/EmitterState.java

* /snakeyaml-engine-2-7-sources-

jar/org/snakeyaml/engine/v2/exceptions/MissingEnvironmentVariableException.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/ConstructNode.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/json/ConstructUuidClass.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/FlowMappingEndToken.java

* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/StreamStartEvent.java

- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/DocumentStartToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/schema/JsonSchema.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/MappingNode.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/scanner/ScannerImpl.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/RepresenterException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/scanner/StreamReader.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/StreamEndToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/resolver/BaseScalarResolver.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/CollectionNode.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/NonPrintableStyle.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/Token.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/scanner/SimpleKey.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/ScalarToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/env/EnvConfig.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/FlowStyle.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/MappingStartEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/emitter/Emitter.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/YamlVersionException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/Anchor.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/ScannerException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/LoadSettingsBuilder.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/schema/CoreSchema.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/Tag.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/SequenceStartEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/emitter/ScalarAnalysis.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/FlowEntryToken.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/comments/CommentEventsCollector.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/MappingEndEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/serializer/AnchorGenerator.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/ConstructScalar.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/BlockEntryToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/StreamStartToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/core/ConstructYamlCoreInt.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/NodeType.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/core/ConstructYamlCoreBool.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/DocumentStartEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/resolver/CoreScalarResolver.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/ComposerException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/resolver/FailsafeScalarResolver.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/parser/Production.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/DocumentEndEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/EmitterException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/json/ConstructYamlJsonBool.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/BlockEndToken.java

- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/BaseConstructor.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/serializer/NumberAnchorGenerator.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/CommentEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/StreamDataWriter.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/ReaderException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/representer/StandardRepresenter.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/resolver/JsonScalarResolver.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/NodeEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/comments/CommentLine.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/ScalarEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/json/ConstructOptionalClass.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/DocumentEndToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/FlowMappingStartToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/TagToken.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/ValueToken.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/composer/Composer.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/CharConstants.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/ScalarStyle.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/SequenceEndEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/YamlEngineException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/ScalarNode.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/DumpSettingsBuilder.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/schema/FailsafeSchema.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/Mark.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/DumpSettings.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/DuplicateKeyException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/AliasEvent.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/YamlOutputStreamWriter.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/CollectionEndEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/Load.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/lowlevel/Compose.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/SettingKey.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/StandardConstructor.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/YamlUnicodeReader.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/parser/Parser.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/lowlevel/Present.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/StreamEndEvent.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/json/ConstructYamlJsonInt.java
- *
- /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/ParserException.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/resolver/ResolverTuple.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/scanner/Scanner.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/ArrayStack.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/common/SpecVersion.java
- * /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/parser/ParserImpl.java


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* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/Node.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/Dump.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/AnchorToken.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/core/ConstructYamlCoreFloat.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/AnchorNode.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/representer/BaseRepresenter.java
*
/sakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/DirectiveToken.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/lowlevel/Serialize.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/AliasToken.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/serializer/Serializer.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/LoadSettings.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/constructor/ConstructYamlNull.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/resolver/ScalarResolver.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/api/RepresentToNode.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/nodes/SequenceNode.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/Event.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/exceptions/ConstructorException.java
*
/sakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/TagTuple.java
* /snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/CollectionStartEvent.java
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```

Found in path(s):

```

* /snakeyaml-engine-2-7-sources-
jar/org/snakeyaml/engine/external/com/google/gdata/util/common/base/UnicodeEscaper.java
* /snakeyaml-engine-2-7-sources-
jar/org/snakeyaml/engine/external/com/google/gdata/util/common/base/PercentEscaper.java
* /snakeyaml-engine-2-7-sources-
jar/org/snakeyaml/engine/external/com/google/gdata/util/common/base/Escaper.java

```

1.120 sqlite 3.48.0-r0

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~~~
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1.121 jboss-logging 3.5.3.Final

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1.122 jakarta-persistence-api 3.1.0

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1.123 bouncycastle-fips 1.0.2.5

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1.124 json-path 2.9.0

1.125 apk-tools 2.14.6-r3

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#
# -----
#
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#  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++/cursespc.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/ncursetest.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++;-*-
/*****

- * 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 "curses.h"

-MODULE_ID("$Id: curses.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: curses.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 <curses.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 1919-2020,2021 Thomas E. Dickey
*
+ * Copyright 1919-2021,2024 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://wez.furlong.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/ncurset.spec
--- ncurses-6.5-20240928+/package/ncurset.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurset.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncurset6
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 $
*/

#ifdef __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 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 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) {
#ifdef 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 *

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* *

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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 @@

/*****

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@@ -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
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*
* 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 @@

```

```

/*****
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*
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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 @@

/*****

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@@ -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                *
+ * 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_fielddtype(mi_field_check, mi_char_check);
    FIELDTYPE *fty_passwd = new_fielddtype(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;
#ifdef 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 @@
@@ -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 @@
/*****

```

```

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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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@@ -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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@@ -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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@@ -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 @@

```



```

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@@ -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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*
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@@ -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 @@
/*****
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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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@@ -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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*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -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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+ * 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 @@

```



```

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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 @@@
    wclrtoobot(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 = wwidth(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 = wwidth(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;
#ifdef 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

1.127 snake-yaml 2.2

1.127.1 Available under license :

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```

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```

express

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- * the License.
- */

Found in path(s):

- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/Mark.java
- * /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/MarkedYAMLErrorException.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/YAMLErrorException.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
- *
- /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
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/Composer.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/internal/Logger.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
- * /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
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java

- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/Property.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
- * /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
*
/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

```

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

```
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```

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```

```
*
```

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Found in path(s):

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.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

* Multi-licensed: EPL / LGPL / GPL / AL / BSD.
*/

Found in path(s):

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

1.128 libffi 3.4.7-r0

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1.129 ca-certificates 20241121-r1

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```
/* c_rehash.c - Create hash symlinks for certificates
 * C implementation based on the original Perl and shell versions
 *
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pkgname=ca-certificates
pkgver=20241121
pkgrel=1
pkgdesc="Common CA certificates PEM files from Mozilla"
url="https://www.mozilla.org/en-US/about/governance/policies/security-group/certs/"
arch="all"
# There is a GPL-2.0-or-later script inside the source but it is not shipped
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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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Developed by:

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mach_override	lib/interception/mach_override

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1.131 hazelcast-tpc-engine 5.4.0

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Found in path(s):

* /hazelcast-tpc-engine-5-4-0-jar/META-INF/maven/com.hazelcast/hazelcast-tpc-engine/pom.xml

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List of third-party dependencies grouped by their license type:

Apache-2.0

Java Concurrency Tools Core Library:4.0.3

Third-party license texts:

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xwd v1.0.7

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- * Guy Eric Schalnat
- * James Yu
- * John Bowler
- * Kevin Bracey
- * Magnus Holmgren
- * Mandar Sahastrabuddhe
- * Mans Rullgard
- * Matt Sarett
- * Mike Klein
- * Pascal Massimino
- * Paul Schmidt

- * Philippe Antoine
- * Qiang Zhou
- * Sam Bushell
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...

Behdad Esfahbod

David Corbett

David Turner

Ebrahim Byagowi

Garret Rieger

Jonathan Kew

Khaled Hosny

Lars Knoll

Martin Hosken

Owen Taylor

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### AUTHORS File Information

...

Main Author

-----

Marti Maria

Contributors

-----

Bob Friesenhahn

Kai-Uwe Behrmann

Stuart Nixon

Jordi Vilar

Richard Hughes

Auke Nauta

Chris Evans (Google)

Lorenzo Ridolfi

Robin Watts (Artifex)

Shawn Pedersen

Andrew Brygin

Samuli Suominen

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Aurelien Jarno

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Michael Vhrel (Artifex)

Michal Cihar

Daniel Kaneider

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Leonhard Gruenschloss (Google)  
Patrick Noffke  
Christopher James Halse Rogers  
John Hein  
Thomas Weber (Debian)  
Mark Allen  
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| Main Mesa code | src/mesa/          | MIT            |
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| Gallium code   | src/gallium/       | MIT            |
| Ext headers    | GL/glext.h         | Khronos        |
|                | GL/glxt.h          | Khronos        |
|                | GL/wglxt.h         | Khronos        |
|                | KHR/khrplatform.h  | Khronos        |

\*\*\*\*\*

----  
include/GL/gl.h :

Mesa 3-D  
graphics library

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\*\*\*\*\*

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```
include/GL/glex.h
include/GL/glxext.h
include/GL/wglxext.h :
```

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```
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== Authors ==

Gershon Elber <gershon[AT]cs.technion.sc.il>  
original giflib code

Toshio Kuratomi <toshio[AT]tiki-lounge.com>  
uncompressed gif writing code  
former maintainer

Eric Raymond <esr[AT]snark.thyrsus.com>  
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tree/openbsd-reallocarray.c

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...

## 1.135 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

## 1.136 py3-parsing 3.1.4-r0

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## 1.137 py3-packaging 24.2-r0

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## 1.138 simpleclient\_tracer\_otel\_agent 0.16.0

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## 1.139 prometheus-metrics-model 1.2.1

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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 metrics 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.snapshots";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

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Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

Upstream-Name: netcat

Files: netcat.c

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Files: nc.1

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Files: atomicio.\*

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Files: socks.c

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Martin Richards

23 February 2007

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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
 new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
 new XElement("p", "XML version by Jon Bosak, 1996-1997."),
 new XElement("p", "This work may be freely copied and distributed worldwide.")
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```

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[http://zlib.net/zlib\\_license.html](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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By Sean Eron Anderson  
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Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

```
<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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# 1.142 gcompat 1.1.0-r4

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# 1.143 failureaccess 1.0.2

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```

Found in path(s):

```

* /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

```

## 1.144 micrometer-observation 1.13.13

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# 1.145 spring-retry 2.0.11

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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://www.google.com"  
Bundle-DocURL: https://github.com/google/gson/gson  
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICENSE-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:git:https://github.com/google/gson.git/gson",developer-connection="scm:git:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"  
Bundle-SymbolicName: com.google.gson  
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Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.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;version="2.10.1"  
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations  
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

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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  |            |                     |
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....

ASM: a very small and fast Java bytecode manipulation framework

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## 1.150 mapsforge-map-reader 0.20.0

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Balzs Dn <balazs.dan@gmail.com>  
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Hady Zalek <hady.zalek@gmail.com>  
Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
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Krystian Kuzniarek <krystian.kuzniarek@gmail.com>  
Lev Makhlis  
Manuel Klimek <klimek@google.com>

Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mika Raento <mikie@iki.fi>  
Mike Bland <mbland@google.com>  
Mikls Fazekas <mfazekas@szemafor.com>  
Neal Norwitz <nnorwitz@gmail.com>  
Nermin Ozkiranartli <nermin@google.com>  
Owen Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
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Paul Menage <menage@google.com>  
Peter Kaminski <piotrk@google.com>  
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* /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
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## 1.154 jaxb-core 4.0.5

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## 1.159 skalibs 2.14.3.0-r0

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pkgname=alpine-base

pkgver=3.21.3

pkgrel=0

pkgdesc="Meta package for minimal alpine base"

url="https://alpinelinux.org"

arch="noarch"

license="MIT"

depends=""

# 1.161 log4j-slf4j2-impl 2.23.1

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rzwitserloot/com.zwitserloot.cmdreader

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projectlombok/lombok.patcher

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## 1.163 zstd-jni 1.5.6-4

### 1.163.1 Available under license :

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

Found in path(s):

\*

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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 fast and high compression lossless algorithm for Java and all JVM languages.

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  
 Bundle-NativeCode: darwin/x86\_64/libzstd-jni-1.5.6-4.dylib;osname=MacOS;  
 osname=MacOSX;processor=x86\_64,darwin/aarch64/libzstd-jni-1.5.6-4.dylib  
 ;osname=MacOS;osname=MacOSX;processor=aarch64,freebsd/amd64/libzstd-jni  
 -1.5.6-4.so;osname=FreeBSD;processor=amd64,freebsd/i386/libzstd-jni-1.5  
 .6-4.so;osname=FreeBSD;processor=i386,linux/aarch64/libzstd-jni-1.5.6-4  
 .so;osname=Linux;processor=aarch64,linux/amd64/libzstd-jni-1.5.6-4.so;o  
 sname=Linux;processor=amd64,linux/arm/libzstd-jni-1.5.6-4.so;osname=Lin  
 ux;processor=arm,linux/i386/libzstd-jni-1.5.6-4.so;osname=Linux;process  
 or=i386,linux/mips64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=mips  
 64,linux/loongarch64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=loon  
 garch64,linux/ppc64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=ppc64  
 ,linux/ppc64le/libzstd-jni-1.5.6-4.so;osname=Linux;processor=ppc64le,li  
 nux/riscv64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=riscv64,linux  
 /s390x/libzstd-jni-1.5.6-4.so;osname=Linux;processor=s390x,win/amd64/li  
 bzstd-jni-1.5.6-4.dll;osname=Win32;processor=amd64,win/aarch64/libzstd-  
 jni-1.5.6-4.dll;osname=Win32;processor=aarch64,win/x86/libzstd-jni-1.5.  
 6-4.dll;osname=Win32;processor=x86  
 Export-Package:  
 com.github.luben.zstd;version="1.5.6.4",com.github.luben  
 .zstd.util;version="1.5.6.4"  
 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-1-5-6-4-5-jar/META-INF/MANIFEST.MF

## 1.164 tre 1.2.5-r9

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# 1.165 mkfontscale 1.2.3-r1

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## 1.166 msgpack 1.0.8

### 1.166.1 Available under license :

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## 1.167 py3-pip-pyc 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.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4   | 2.3   | 2004 | PSF | yes |
| 2.4.1 | 2.4   | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 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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| 1.3 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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\* /spring-aspects-6-1-19-sources-jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java  
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jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsCommandListener.java
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jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/PoolingHttpClientConnectionManagerMetricsBinder.
java
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jar/io/micrometer/core/instrument/binder/httpcomponents/MicrometerHttpRequestExecutor.java
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jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsConnectionPoolListener.java
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```

jar/io/micrometer/core/instrument/binder/httpcomponents/PoolingHttpClientConnectionManagerMetricsBinder.java  
\* /micrometer-core-1-13-13-sources-  
jar/io/micrometer/core/instrument/binder/jetty/OnCompletionAsyncListener.java  
\*  
/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyConnectionMetrics.java  
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\* /micrometer-core-1-13-13-sources-  
jar/io/micrometer/core/instrument/binder/jetty/InstrumentedQueuedThreadPool.java  
\* /micrometer-core-1-13-13-sources-  
jar/io/micrometer/core/instrument/observation/DefaultMeterObservationHandler.java  
\* /micrometer-core-1-13-13-sources-  
jar/io/micrometer/core/instrument/kotlin/ObservationCoroutineContextServerInterceptor.kt  
\*  
/micrometer-core-1-13-13-sources-  
jar/io/micrometer/core/instrument/binder/jetty/JettyServerThreadPoolMetrics.java  
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Found in path(s):

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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/annotation/TimedSet.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/simple/SimpleMeterRegistry.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/annotation/Incubating.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeFunctionCounter.java
*
/micrometer-core-1-13-13-sources-jar/io/micrometer/core/aop/CountedAspect.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/logging/LogbackMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyStatisticsMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionTimer.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/AbstractMeter.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/distribution/PercentileHistogramBuckets.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Counter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepLong.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/CountAtBucket.java
*
/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeGauge.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/MeterPartition.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionCounter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/MeterFilter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmGcMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/system/DiskSpaceMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/internal/Mergeable.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmCompilationMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/DiskSpaceMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepMeterRegistry.java
*
/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardClock.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Statistic.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardRate.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/push/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/aop/TimedAspect.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/ImmutableTag.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/HazelcastCacheMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Measurement.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/TimeUtils.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeTimer.java
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/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopTimer.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowMax.java
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* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/composite/CompositeDistributionSummary.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Clock.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/distribution/TimeWindowFixedBoundaryHistogram.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/InvalidConfigurationException.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeCounter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/AbstractCompositeMeter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/MockClock.java
* /micrometer-core-1-13-13-sources-
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/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/search/RequiredSearch.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopDistributionSummary.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/dropwizard/package-info.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/GuavaCacheMetrics.java
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jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherCommand.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/StringUtils.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/BaseUnits.java
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/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/pause/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/AbstractTimer.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/EhCache2Metrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/FunctionTimer.java
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* /micrometer-core-1-13-13-sources-
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* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherThreadPool.java
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/micrometer-core-1-13-13-sources-
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/cumulative/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/internal/TimedExecutor.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepCounter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepTimer.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/AnnotationFinder.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/MeterFilterReply.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/MeterEquivalence.java

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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/MeterBinder.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/StringEscapeUtils.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/TimedFinder.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/NamingConvention.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/internal/DefaultLongTaskTimer.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeCustomMeter.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardDistributionSummary.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/MeterRegistryConfig.java
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/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/pause/NoPauseDetector.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/HierarchicalNameMapper.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopGauge.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopLongTaskTimer.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepDouble.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardGauge.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeMeter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardMeterRegistry.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpContext.java
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* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpMetricsEventListener.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/logging/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/internal/package-info.java
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/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/MeterRegistry.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/CacheMeterBinder.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/internal/TimedExecutorService.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/DistributionSummary.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Gauge.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpObservationConvention.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/jersey/server/DefaultJerseyTagsProvider.java

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- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/NoopHistogram.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/search/package-info.java
- \*
- /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/logging/Log4j2Metrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepFunctionCounter.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/ClassLoaderMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmThreadMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepRegistryConfig.java
- \* /micrometer-core-1-13-13-sources-
- jar/io/micrometer/core/instrument/binder/jersey/server/MetricsRequestEventListener.java
- \* /micrometer-core-1-13-13-sources-
- jar/io/micrometer/core/instrument/binder/okhttp3/DefaultOkHttpObservationConvention.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionTimer.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/ExecutorServiceMetrics.java
- \*
- /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepFunctionTimer.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/annotation/Counted.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeTimeGauge.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/AbstractDistributionSummary.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionCounter.java
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- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/JCacheMetrics.java
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- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/IOUtils.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/system/FileDescriptorMetrics.java
- \*
- /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/TimeGauge.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyTags.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Metrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/HistogramGauges.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardConfig.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Tags.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/AbstractPartition.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopCounter.java
- \* /micrometer-core-1-13-13-sources-
- jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisher.java
- \*
- /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeFunctionTimer.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeLongTaskTimer.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/system/UptimeMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepDistributionSummary.java
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- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/system/ProcessorMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionTimer.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/annotation/Timed.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/Histogram.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/simple/package-info.java



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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/HistogramSupport.java
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/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/ValueAtPercentile.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Meter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/Tag.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeMeterRegistry.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeTimer.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/composite/CompositeCounter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/noop/NoopMeter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/db/DatabaseTableMetrics.java
* /micrometer-core-1-13-13-sources-
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/internal/DefaultGauge.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/simple/SimpleConfig.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/search/MeterNotFoundException.java
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\* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/util/internal/logging/FormattingTuple.java

\* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/util/internal/logging/MessageFormatter.java

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- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/http/DefaultHttpJakartaServletRequestTagsProvider.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/tomcat/package-info.java
- \*
  - /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/hystrix/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/ApacheHttpClientObservationConvention.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/mongodb/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/db/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyObservationConvention.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/annotation/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/ObservationRequestEventListener.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultApacheHttpClientObservationConvention.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/logging/package-info.java
- \*
  - /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/observation/ObservationOrTimerCompatibleInstrumentation.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/DefaultJerseyObservationConvention.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/ApacheHttpClientObservationDocumentation.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/observation/MeterObservationHandler.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/HighCardinalityTagsDetector.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/kafka/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyContext.java
- \*
  - /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/okhttp3/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/observation/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/aop/package-info.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/ObservationApplicationEventListener.java

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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/ipc/http/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/kotlin/package-info.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/jersey/server/JerseyObservationDocumentation.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/http/HttpJakartaServletRequestTagsProvider.java
*
/micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/httpcomponents/ApacheHttpClientContext.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/system/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/validate/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/lang/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/http/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/commonspool2/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/docs/package-info.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyKeyValues.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jpa/package-info.java
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- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/http/Outcome.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaClientMetrics.java
- \*
- /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowSum.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTagsProvider.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/MicrometerHttpClientInterceptor.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/db/JooqExecuteListener.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jpa/HibernateQueryMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepTuple2.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/http/HttpRequestTags.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/validate/Validated.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultUriMapper.java
- \*
- /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/AbstractTimerBuilder.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/http/HttpServletRequestTagsProvider.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/MeterRegistryConfigValidator.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTags.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/HazelcastIMapAdapter.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettySslHandshakeMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmHeapPressureMetrics.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/FixedBoundaryVictoriaMetricsHistogram.java
- \*
- /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/validate/InvalidReason.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/HttpContextUtils.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/http/DefaultHttpServletRequestTagsProvider.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/validate/PropertyValidator.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepValue.java
- \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/validate/DurationValidator.java

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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaStreamsMetrics.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/commonspool2/CommonsObjectPool2Metrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/config/validate/ValidationException.java
*
/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/db/MetricsDSLContext.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpConnectionPoolMetrics.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/internal/CumulativeHistogramLongTaskTimer.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/logging/LoggingMeterRegistry.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/ipc/http/URLConnectionSender.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/push/PushMeterRegistry.java
*
/micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/MultiGauge.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/StrongReferenceGaugeFunction.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/push/PushRegistryConfig.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/ipc/http/OkHttpSender.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/util/NamedThreadFactory.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaConsumerMetrics.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/ipc/http/HttpStatusClass.java
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 jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/MicrometerHttpRequestExecutor.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/jetty/DefaultJettyClientObservationConvention.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/FixedBoundaryHistogram.java  
 \*  
 /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/ApacheHttpClientObservationDocumentation.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/ApacheHttpClientObservationConvention.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/jetty/JettyClientObservationDocumentation.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/http/HttpJakartaServletRequestTags.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/netty4/NettyMeters.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/MicrometerHttpClientInterceptor.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/distribution/StepBucketHistogram.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/package-  
 info.java  
 \*  
 /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientContext.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/ObservationExecChainHandler.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/DefaultUriMapper.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/netty4/package-info.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/netty4/NettyAllocatorMetrics.java  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/DefaultApacheHttpClientObservationConvention.jav  
 a  
 \* /micrometer-core-1-13-13-sources-  
 jar/io/micrometer/core/instrument/binder/netty4/NettyEventExecutorMetrics.java

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* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/jetty/JettyClientObservationConvention.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/HttpContextUtils.java
*
/micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/httpcomponents/hc5/HttpClientContext.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/step/StepMeter.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/aop/MeterTagAnnotationHandler.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientKeyValues.java
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* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/kotlin/KotlinObservationContextElement.java
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\* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/lang/Nullable.java

\* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/lang/NonNullApi.java

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* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/GrpcClientObservationConvention.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/DefaultGrpcServerObservationConvention.java
*
/micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/GrpcServerObservationContext.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/grpc/ObservationGrpcClientCall.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/ObservationGrpcServerInterceptor.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/grpc/ObservationGrpcServerCall.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/GrpcObservationDocumentation.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/ObservationGrpcServerCallListener.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/DefaultGrpcClientObservationConvention.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/ObservationGrpcClientCallListener.java
*
/micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/GrpcClientObservationContext.java
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 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientCallListener.java  
 \*  
 /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerInterceptor.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmInfoMetrics.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/cache/CaffeineStatsCounter.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/mongodb/DefaultMongoCommandTagsProvider.java  
 \* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/mongodb/DefaultMongoConnectionPoolTagsProvider.java

```
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jar/io/micrometer/core/instrument/binder/mongodb/MongoCommandTagsProvider.java
* /micrometer-core-1-13-13-sources-
jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientInterceptor.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientCall.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerCall.java
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* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/util/internal/logging/InternalLogLevel.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java
* /micrometer-core-1-13-13-sources-jar/io/micrometer/core/util/internal/logging/Slf4JLoggerFactory.java
```

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## 1.177 python-setuptools 70.3.0

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- - `\_\_init\_\_.py`
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`fastjsonschema`

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include/bsd/timeconv.h

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man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
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man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcslcpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/pwcache.c  
src/radixsort.c  
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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  
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src/getentropy\_solaris.c  
src/getentropy\_win.c  
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## 1.181 json-simple 1.1.1

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## 1.182 slf4j 2.0.17

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Manifest-Version: 1.0  
Specification-Title: zstd-jni  
Specification-Version: 1.5.6-3  
Specification-Vendor: com.github.luben  
Implementation-Title: zstd-jni  
Implementation-Version: 1.5.6-3  
Implementation-Vendor: com.github.luben  
Implementation-Vendor-Id: com.github.luben  
Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1713920782201  
 Bundle-Name: zstd-jni  
 Bundle-SymbolicName: com.github.luben.zstd-jni  
 Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.  
 Bundle-Vendor: com.github.luben  
 Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License  
 Bundle-Version: 1.5.6.3  
 Bundle-ManifestVersion: 2  
 Bundle-NativeCode: darwin/x86\_64/libzstd-jni-1.5.6-3.dylib;osname=MacOS;osname=MacOSX;processor=x86\_64,darwin/aarch64/libzstd-jni-1.5.6-3.dylib;osname=MacOS;osname=MacOSX;processor=aarch64,freebsd/amd64/libzstd-jni-1.5.6-3.so;osname=FreeBSD;processor=amd64,freebsd/i386/libzstd-jni-1.5.6-3.so;osname=FreeBSD;processor=i386,linux/aarch64/libzstd-jni-1.5.6-3.so;osname=Linux;processor=aarch64,linux/amd64/libzstd-jni-1.5.6-3.so;osname=Linux;processor=amd64,linux/arm/libzstd-jni-1.5.6-3.so;osname=Linux;processor=arm,linux/i386/libzstd-jni-1.5.6-3.so;osname=Linux;processor=i386,linux/mips64/libzstd-jni-1.5.6-3.so;osname=Linux;processor=mips64,linux/loongarch64/libzstd-jni-1.5.6-3.so;osname=Linux;processor=loongarch64,linux/ppc64/libzstd-jni-1.5.6-3.so;osname=Linux;processor=ppc64,linux/ppc64le/libzstd-jni-1.5.6-3.so;osname=Linux;processor=ppc64le,linux/riscv64/libzstd-jni-1.5.6-3.so;osname=Linux;processor=riscv64,linux/s390x/libzstd-jni-1.5.6-3.so;osname=Linux;processor=s390x,win/amd64/libzstd-jni-1.5.6-3.dll;osname=Win32;processor=amd64,win/aarch64/libzstd-jni-1.5.6-3.dll;osname=Win32;processor=aarch64,win/x86/libzstd-jni-1.5.6-3.dll;osname=Win32;processor=x86  
 Export-Package: com.github.luben.zstd;version="1.5.6.3",com.github.luben.zstd.util;version="1.5.6.3"  
 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-1-5-6-3-3-jar/META-INF/MANIFEST.MF

# 1.185 tomcat-embed-el 10.1.40

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- web-app\_5\_0.xsd
- web-app\_6\_0.xsd
- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd
- web-fragment\_5\_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
- javaee\_8.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- 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
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For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration

The `org.apache.tomcat.jni` and the `org.apache.tomcat.net.openssl` packages

are derivative work originating from the Netty project and the finagle-native

project developed at Twitter

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For portions of the Tomcat cloud support

The `org.apache.catalina.tribes.membership.cloud` package contains derivative

work originating from the jgroups project.

<https://github.com/jgroups-extras/jgroups-kubernetes>

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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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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd

- web-fragment\_5\_0.xsd
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# 1.187 servlet-api 4.0.1

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- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ResourceLoader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/AttributeAccessor.java
- \*



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/spring-core-6-1-19-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/SpringAsmInfo.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-6-1-19-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/ConversionException.java
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Found in path(s):

- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/AbstractClassGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/FixedValueGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/DispatcherGenerator.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/EmitUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/VisibilityPredicate.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/LazyLoaderGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Mixin.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastClass.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackFilter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Proxy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AbstractClassLoader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/TypeUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddStaticInitTransformer.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/CollectionUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BeanCopier.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MethodProxy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/CodeEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/InvocationHandlerGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassTransformerChain.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ReflectUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/MethodDelegate.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MethodInterceptorGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/AsmApi.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/MulticastDelegate.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MixinEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DefaultNamingPolicy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DebuggingClassWriter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastClassEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassFilterTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/KeyFactory.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/MethodWrapper.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/NoOpGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastMethod.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java

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\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/DataBufferDecoder.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/RegisterReflectionForBindingProcessor.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/CloseableDataBuffer.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/DomContentHandler.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/NestedExceptionUtils.java

- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/substitution/Target\_ClassFinder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/AbstractEncoder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/NativeConfigurationWriter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GeneratedMethod.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/SerializationHints.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/ResourceHintsPredicates.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/ResourceRegion.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ExecutableMode.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/TouchableDataBuffer.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/Converter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AliasFor.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/feature/ThrowawayClassLoader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferOutputStream.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/ReflectiveRuntimeHintsRegistrar.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/style/SimpleValueStyler.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/PropertiesPersister.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/substitution/Target\_Introspector.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/FileNativeConfigurationWriter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/DefaultResourceLoader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/SerializationHintsPredicates.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/MethodReference.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/FileSystemGeneratedFiles.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxUtils.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GeneratedTypeReference.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GeneratedMethods.java

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* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/Hints.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/ListenableFutureCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/ReflectiveProcessor.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/codec/Netty5BufferDecoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/RuntimeHintsPredicates.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferInputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/MemberHint.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/DomUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/Netty5BufferEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/ProxyHintsPredicates.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
*
/spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GenerationContext.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/FieldHint.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/VfsUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ProxyHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/FutureUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/SimpleReflectiveProcessor.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ConditionalHint.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/FailureCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
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\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/EncodingException.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/CodecException.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/type/ClassMetadata.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxResult.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/InvalidMimeTypeException.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/GenericConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/WritableResource.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/Order.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ResourceEditor.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractXMLReader.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/style/ToStringStyler.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StreamConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/env/EnvironmentCapable.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/DecodingException.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/ResolvableTypeProvider.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/DecoratingClassLoader.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/style/DefaultToStringStyler.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java

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* /spring-core-6-1-19-sources-jar/org/springframework/asm/SymbolTable.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/ClassReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Handle.java
*
/spring-core-6-1-19-sources-jar/org/springframework/asm/ByteVector.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Handler.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Opcodes.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/TypeReference.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/ConstantDynamic.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/ClassWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/CurrentFrame.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/MethodWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Symbol.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/TypePath.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Label.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/ModuleWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/ClassTooLargeException.java
*
/spring-core-6-1-19-sources-jar/org/springframework/asm/ModuleVisitor.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/MethodTooLargeException.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Type.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/FieldWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Attribute.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Context.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/AnnotationWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/FieldVisitor.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/RecordComponentWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Constants.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/AnnotationVisitor.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/MethodVisitor.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/RecordComponentVisitor.java
*
/spring-core-6-1-19-sources-jar/org/springframework/asm/ClassVisitor.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/Frame.java
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Found in path(s):

```

* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Enhancer.java
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Found in path(s):

\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/style/StyleUtils.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/InfrastructureProxy.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/task/SyncTaskExecutor.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java  
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\* /spring-core-6-1-19-sources-jar/org/springframework/util/backoff/ExponentialBackOff.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/ConcurrencyThrottleSupport.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/CoroutinesUtils.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/Reflective.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/env/MutablePropertySources.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/SerializationUtils.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/JavaSerializationHint.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AttributeMethods.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/InputStreamResource.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/BridgeMethodResolver.java

- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/MimeType.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/ClassUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/function/ThrowingFunction.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/core/SimpleAliasRegistry.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToPatternConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ResourceBundleHint.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/InputStreamSource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/ResourceUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/RegisterReflectionForBinding.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotatedMethod.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ResourcePatternHint.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/feature/PreComputeFieldFeature.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/SerializableTypeWrapper.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/ResolvableType.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ResourceDecoder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/Resource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/JdkProxyHint.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/UrlResource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/AccessControl.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/unit/DataSize.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/TypeHint.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/TypeDescriptor.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/OrderUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/function/ThrowingBiFunction.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/ReflectionHintsPredicates.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/Decoder.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/util/StringUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/function/SupplierUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/function/ThrowingConsumer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/GenericConversionService.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/DefaultMethodReference.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToRegexConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/MethodIntrospector.java

/\*

/spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferUtils.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/unit/DataUnit.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/MultiValueMapAdapter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/env/PropertiesPropertySource.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/KotlinDetector.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/OutputStreamPublisher.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/StreamUtils.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/BindingReflectionHintsRegistrar.java

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\* /spring-core-6-1-19-sources-jar/org/springframework/core/style/ValueStyler.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ContextResource.java

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\* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/TypeFilter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/env/CommandLineArgs.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/backoff/BackOffExecution.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ProtocolResolver.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/ErrorHandler.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/ConverterRegistry.java  
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- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/NewInstanceInstantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisSerializer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisException.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisStd.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/SerializingInstantiatorStrategy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/ObjectInstantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
- \* /spring-core-6-1-19-sources-
- jar/org/springframework/objenesis/instantiator/basic/ObjectInputStreamInstantiator.java
- \*
- /spring-core-6-1-19-sources-
- jar/org/springframework/objenesis/instantiator/basic/ObjectStreamClassInstantiator.java
- \* /spring-core-6-1-19-sources-
- jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
- \* /spring-core-6-1-19-sources-
- jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisBase.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/AccessibleInstantiator.java
- \* /spring-core-6-1-19-sources-
- jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java

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* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/ConstructorInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiatorBase.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
*
/spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/Objenesis.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /spring-core-6-1-19-sources-
jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/android/Android17Instantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/perc/PercInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
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```

* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/TinyBitSet.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Block.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/InvocationHandler.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassReaderGenerator.java
*
/spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BulkBeanException.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassTransformerTee.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Callback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/LazyLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/NoOp.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/ProxyRefDispatcher.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/ConstructorDelegate.java

```

- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddPropertyTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldCallback.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/CodeGenerationException.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/TransformingClassGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Predicate.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AccessFieldTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/FieldProviderTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldFilter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/NamingPolicy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/FixedKeySet.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Converter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/FixedValue.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Customizer.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Dispatcher.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassEmitterTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassFilter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/TransformingClassLoader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassVisitorTee.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastMember.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/ParallelSorter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DefaultGeneratorStrategy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AbstractClassTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/MethodVisitorTee.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddDelegateTransformer.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/StringSwitcher.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Local.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/ParallelSorterEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Transformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/SorterTemplate.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MixinBeanEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/MethodFilter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ObjectSwitchCallback.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassesKey.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BeanGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/FieldVisitorTee.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AnnotationVisitorTee.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassTransformerFactory.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/MethodFilterTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableStrategy.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ProcessSwitchCallback.java

```

* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BulkBean.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastConstructor.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Constants.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/GeneratorStrategy.java
*
/spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Signature.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ProcessArrayCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldEnabled.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassNameReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DuplicatesPredicate.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/FieldProvider.java
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Found in path(s):

```

* /spring-core-6-1-19-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/CompositeIterator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
*
/spring-core-6-1-19-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/OverridingClassLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
*

```



/spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxSource.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/XMLStreamWriter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java  
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\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ConversionUtils.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/DecoratingProxy.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/SimpleRouteMatcher.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/PathMatcher.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/SpringVersion.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/ReactiveAdapter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/MultiValueMap.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/Ordered.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java  
\*  
/spring-core-6-1-19-sources-jar/org/springframework/core/codec/DataBufferEncoder.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ResourceEncoder.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/AbstractDecoder.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/util/RouteMatcher.java

\* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java

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\* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ResourceHints.java

\* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/RuntimeHintsRegistrar.java

\* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/SpringObjenesis.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java

\*

/spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/FilePatternResourceHintsRegistrar.java

\* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/SpringFactoriesLoaderRuntimeHints.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/SpringProperties.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/task/TaskRejectedException.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java

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- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/TypeSpec.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/TypeVariableName.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/AnnotationSpec.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/WildcardTypeName.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/javapoet/Util.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/FieldSpec.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/ParameterizedTypeName.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/ArrayTypeName.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/ParameterSpec.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/CodeBlock.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/TypeName.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/NameAllocator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/MethodSpec.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/CodeWriter.java
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- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/RejectModifierPredicate.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassInfo.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MixinEverythingEmitter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddInitTransformer.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackInfo.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AbstractClassFilterTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/MethodInfoTransformer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/InterfaceMaker.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AbstractInterceptFieldCallback.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/MethodInfo.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackHelper.java

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```
* /spring-core-6-1-19-sources-jar/org/springframework/util/ConcurrentReferenceHashMap.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/FileCopyUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/CollectionUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/FileSystemResource.java
*
* /spring-core-6-1-19-sources-jar/org/springframework/lang/NonNullFields.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/VirtualThreadTaskExecutor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/log/LogMessage.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/AbstractFileResolvingResource.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/VirtualThreadDelegate.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/DefaultGenerationContext.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/FastByteArrayOutputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/JdkProxyHintExtensions.kt
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
*
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/MemberCategory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/EncodedResource.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/NestedCheckedException.java
* /spring-core-6-1-19-sources-
jar/org/springframework/core/annotation/SynthesizedMergedAnnotationInvocationHandler.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /spring-core-6-1-19-sources-
jar/org/springframework/aot/hint/support/PathMatchingResourcePatternResolverRuntimeHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/ClassHintUtils.java
* /spring-core-6-1-19-sources-
jar/org/springframework/aot/generate/UnsupportedTypeValueCodeGenerationException.java
```

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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/AbstractResource.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PropertySourceFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/PathResource.java
* /spring-core-6-1-19-sources-
jar/org/springframework/aot/hint/support/ObjectToObjectConverterRuntimeHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/backoff/BackOff.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/ResourceHintsWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BeanMap.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/AntPathMatcher.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ReactiveAdapterRegistry.java
*
/spring-core-6-1-19-sources-jar/org/springframework/util/xml/TransformerUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PropertySourceProcessor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotations.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/MethodInvoker.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/NestedRuntimeException.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToArrayConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/NumberUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ClassPathResource.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/ReflectionUtils.java
*
/spring-core-6-1-19-sources-jar/org/springframework/aot/generate/MethodName.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/PatternMatchUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/Property.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/ObjectUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/CollectionFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/OrderComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/RepeatableContainers.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/ValueCodeGeneratorDelegates.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/NettyDataBufferFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/TaskExecutor.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/PriorityOrdered.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ByteBufferDecoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/CompositePropertySource.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ResourcePatternHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/DigestUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/UnmodifiableMultiValueMap.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/FileSystemUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/StringDecoder.java

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- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/function/ThrowingSupplier.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ModuleResource.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/SerializationHintsWriter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/SystemPropertyUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/serializer/DefaultDeserializer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationTypeMapping.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/VfsResource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/AbstractCharSequenceDecoder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/AttributeAccessorSupport.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/task/support/CompositeTaskDecorator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/Base64Utils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/FutureAdapter.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GeneratedClasses.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/CollectionToStringConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ProxyHintsExtensions.kt
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/PropertySource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/SimpleTypeReference.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/StringValueResolver.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/DescriptiveResource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/ClassFormatException.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/ListBasedXMLEventReader.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/SerializationHintsExtensions.kt
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/ConcurrentLruCache.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/comparator/BooleanComparator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/Netty5DataBuffer.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/AotDetector.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/NativeDetector.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/Constants.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/ValueCodeGenerator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ResourceHintsExtensions.kt
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/InMemoryGeneratedFiles.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationTypeMappings.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/ProfilesParser.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferWrapper.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ReflectionHintsExtensions.kt
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/AbstractTypeReference.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java

- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/ReflectionHintsWriter.java
- \* /spring-core-6-1-19-sources-
- jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/ParameterizedTypeReference.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/core/log/LogFormatUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/BasicJsonWriter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/AbstractDataBufferDecoder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/lang/Nullable.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ExecutableHint.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/task/support/ContextPropagatingTaskDecorator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/TypeReference.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/TypeHintExtensions.kt
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/MethodParameter.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/core/Conventions.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/comparator/Comparators.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/AbstractEnvironment.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxEventXMLReader.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/NamedThreadLocal.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/CommandLinePropertySource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/MethodClassKey.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/MimeTypeUtils.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/lang/NonNullApi.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/AppendableConsumerInputStreamSource.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ReflectionHints.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AbstractMergedAnnotation.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/type/AnnotationMetadata.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/type/StandardClassMetadata.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/GenericTypeResolver.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/CharBufferDecoder.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/comparator/ComparableComparator.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/ValueCodeGenerationException.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/DefaultConversionService.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
- \*
- /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/Generated.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/util/AutoPopulatingList.java
- \* /spring-core-6-1-19-sources-
- jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
- \* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/SpringPropertiesRuntimeHints.java

```

* /spring-core-6-1-19-sources-jar/org/springframework/lang/NonNull.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/Environment.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/Profiles.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PropertySourceDescriptor.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/KotlinReflectionParameterNameDiscoverer.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/Assert.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/ProxyHintsWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/ConversionFailedException.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/PropertyResolverExtensions.kt
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadata.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/Netty5DataBufferFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/ConversionService.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ReflectionTypeReference.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/KotlinDetectorRuntimeHints.java
*
/spring-core-6-1-19-sources-jar/org/springframework/util/StopWatch.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/TypeUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GeneratedClass.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GeneratedFiles.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/function/SingletonSupplier.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/InstanceFilter.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/JdkIdGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java

```



\*  
/spring-core-6-1-19-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java  
\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java  
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* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ConfigurableConversionService.java
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\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxStreamHandler.java

\*

\*/spring-core-6-1-19-sources-jar/org/springframework/cglib/SpringCglibInfo.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/util/ExceptionTypeFilter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/PropertiesToStringConverter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToCollectionConverter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java

\* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java

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\* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Factory.java

\* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/UndeclaredThrowableException.java

\* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MethodInterceptor.java

## 1.192 sh 1.14.3

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## 1.193 ksoap 2.3.0

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## 1.194 error\_prone\_annotations 2.18.0

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\* /error-prone-annotations-2-18-0-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

# 1.195 simple launcher 1.1.0.14

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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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(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.

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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!

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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](mailto:distutils-sig@python.org)

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

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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->

### 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>

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### 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>  
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-----  
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.

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Any

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## 1.199 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

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\* /prometheus-metrics-config-1-2-1-jar/META-INF/MANIFEST.MF

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\* /prometheus-metrics-config-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-config/pom.xml

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\*



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\* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java  
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- \* /spring-tx-6-1-19-sources-
- jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
- \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/annotation/Transactional.java
- \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
- \* /spring-tx-6-1-19-sources-

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jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/ReactiveTransaction.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/event/TransactionalApplicationListenerSynchronization.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/annotation/RestrictedTransactionalEventListenerFactory.java
*
/spring-tx-6-1-19-sources-
jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /spring-tx-6-1-19-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/PlatformTransactionManager.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/event/TransactionalEventListener.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/TransactionalOperator.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionExecutionListener.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
*
/spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/event/TransactionalApplicationListenerMethodAdapter.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/TransactionalEventPublisher.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/event/TransactionalApplicationListenerAdapter.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionStatus.java
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\* /spring-tx-6-1-19-sources-jar/org/springframework/dao/TransientDataAccessException.java  
\*  
/spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java  
\* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionSystemException.java  
\* /spring-tx-6-1-19-sources-jar/org/springframework/dao/OptimisticLockingFailureException.java  
\* /spring-tx-6-1-19-sources-jar/org/springframework/dao/UncategorizedDataAccessException.java  
\* /spring-tx-6-1-19-sources-jar/org/springframework/dao/DataRetrievalFailureException.java  
\* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java  
\* /spring-tx-6-1-19-sources-jar/org/springframework/dao/NonTransientDataAccessException.java  
\* /spring-tx-6-1-19-sources-jar/org/springframework/dao/DataAccessResourceFailureException.java  
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  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/EmptyResultDataAccessException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/ResourceTransactionManager.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/config/TxNamespaceHandler.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionUsageException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/InvalidIsolationLevelException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/NoTransactionException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/TransientDataAccessResourceException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/QueryTimeoutException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/RecoverableDataAccessException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/IllegalTransactionStateException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/jta/TransactionFactory.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionTimedOutException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/UnexpectedRollbackException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
  - \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
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`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionManager.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java`

`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/TransactionOperations.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java`  
`/spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java`  
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* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
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jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
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* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/TransactionContext.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationUtils.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
* /spring-tx-6-1-19-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java

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* /spring-tx-6-1-19-sources-
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*
/spring-tx-6-1-19-sources-jar/org/springframework/transaction/annotation/TransactionRuntimeHints.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /spring-tx-6-1-19-sources-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
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* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/TransactionCallback.java
*
/spring-tx-6-1-19-sources-jar/org/springframework/transaction/event/TransactionPhase.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/TransactionCallback.java
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- \* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/TransactionSynchronization.java
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- /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/SimpleTransactionScope.java
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fontconfig/fc-case/CaseFolding.txt

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-----  
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/\*

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fontconfig/src/fcfoundry.h

/\*

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\*/

-----  
fontconfig/src/fcmd5.h

/\*

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\*  
\* Equivalent code is available from RSA Data Security, Inc.  
\* This code has been tested against that, and is equivalent,

\* except that you don't need to include two pages of legalese  
\* with every copy.  
\*  
\* To compute the message digest of a chunk of bytes, declare an  
\* MD5Context structure, pass it to MD5Init, call MD5Update  
\* as  
\* needed on buffers full of bytes, and then call MD5Final, which  
\* will fill a supplied 16-byte array with the digest.  
\*/

-----  
fontconfig/src/fcmutex.h

/\*  
\* Atomic int and pointer operations. Originally copied from HarfBuzz.  
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fontconfig/src/ftglue.[ch]

```
/* ftglue.c: Glue code for compiling the OpenType code from
 * FreeType 1 using only the public API of FreeType 2
 *
 * By David Turner, The FreeType Project (www.freetype.org)
 *
 * This code is explicitly put in the public domain
 *
 * =====
 *
 * the OpenType
 * parser codes was originally written as an extension to
 * FreeType 1.x. As such, its source code was embedded within the library,
 * and used many internal FreeType functions to deal with memory and
 * stream i/o.
 *
 * When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
 * which basically means that some macro tricks were performed in order to
 * directly access FT2 _internal_ functions.
 *
 * these functions were never part of FT2 public API, and _did_ change between
 * various releases. This created chaos for many users: when they upgraded the
 * FreeType library on their system, they couldn't run Gnome anymore since
 * Pango refused to link.
 *
 * Very fortunately, it's possible to completely avoid this problem because
 * the FT_StreamRec and FT_MemoryRec structure types, which describe how
 * memory and stream implementations interface with the rest of the font
 * library, have always been part of the public API, and never changed.
 *
 * What we do
 * thus is re-implement, within the OpenType parser, the few
 * functions that depend on them. This only adds one or two kilobytes of
 * code, and ensures that the parser can work with _any_ version
 * of FreeType installed on your system. How sweet... !
 *
 * Note that we assume that Pango doesn't use any other internal functions
 * from FreeType. It used to in old versions, but this should no longer
 * be the case. (crossing my fingers).
 *
 * - David Turner
 * - The FreeType Project (www.freetype.org)
 *
 * PS: This "glue" code is explicitly put in the public domain
 */
```

# 1.207 importlib-metadata 4.11.1

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# 1.208 platformdirs 4.2.2

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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 <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 | Year | Owner | GPL-            |
|---------|---------|------|-------|-----------------|
|         | from    |      |       | compatible? (1) |

|                |           |           |               |
|----------------|-----------|-----------|---------------|
| 0.9.0 thru 1.2 | 1991-1995 | CWI       | yes           |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI yes      |
| 1.6            | 1.5.2     | 2000      | CNRI no       |
| 2.0            | 1.6       | 2000      | BeOpen.com no |
| 1.6.1          | 1.6       | 2001      | CNRI yes (2)  |
| 2.1            | 2.0+1.6.1 | 2001      | PSF no        |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF yes       |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF yes       |
| 2.1.2          | 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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Authors/contributors include:

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Ada Worcester  
Alex Dowad  
Alex Suykov  
Alexander Monakov  
Andre McCurdy  
Andrew Kelley  
Anthony G. Basile  
Aric Belsito  
Arvid Picciani  
Bartosz Brachaczek  
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Drew DeVault  
Emil Renner Berthing  
Fangrui Song  
Felix Fietkau  
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Gianluca Anzolin  
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## 1.211 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.google.protobuf, javax.annotation"  
Import-Package: com.google.common.base;version="[32.0,33)", com.google.common.io;version="[32.0,33)", com.google.common.math;version="[32.0,33)", com.google.common.primitives;version="[32.0,33)", com.google.gson;version="[2.8,3)", com.google.gson.stream;version="[2.8,3)", com.google.protobuf, 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

## 1.212 simpleclient-hotspot 0.16.0

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Found in path(s):

\* /simpleclient-hotspot-0-16-0-2-jar/META-INF/maven/io.prometheus/simpleclient\_hotspot/pom.xml

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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

Found in path(s):

\* /simpleclient-hotspot-0-16-0-2-jar/META-INF/MANIFEST.MF

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# 1.214 libcurl 8.12.1-r0

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# 1.215 unbescape 1.1.6.RELEASE

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# 1.216 spring-beans 6.1.19

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```

Found in path(s):

```
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/RegisteredBean.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/BeanRegistrationCodeFragmentsDecorator.java
*
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/MethodDescriptor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionPropertiesCodeGenerator.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanInstanceSupplier.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
*
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/annotation/QualifierAnnotationAutowireCandidateResolver.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationKey.java
* /spring-beans-6-1-19-sources-
```



```

jar/org/springframework/beans/factory/aot/DefaultBeanRegistrationCodeFragments.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/InstanceSupplierCodeGenerator.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanWrapperImpl.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/CodeWarnings.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/InjectionPoint.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/annotation/JakartaAnnotationsRuntimeHints.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/PropertyComparator.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/MutablePropertyValues.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/PathEditor.java
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Found in path(s):
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Qualifier.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
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*/
/**
 * Process the given {@link ConfigurableListableBeanFactory} 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
 * bean factory. 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 bean factory does not contain anything that is relevant to
 * the processor, this method should return a {@code null} contribution.
 * @param beanFactory the bean factory to process
 * @return a {@link BeanFactoryInitializationAotContribution} or {@code null}
 */

```

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```

* /spring-beans-6-1-19-sources-
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```

* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedMap.java

```

```

* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/AutowiredArguments.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/SimpleBeanInfoFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyAccessor.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationCode.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCode.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AutowireCandidateResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedList.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedSet.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/ListableBeanFactoryExtensions.kt
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanFactoryUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/TypeMismatchException.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/AutowiredArgumentsCodeGenerator.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionMethodGeneratorFactory.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/AotServices.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CharsetEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionOverrideException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsCode.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotContribution.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationExcludeFilter.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}
 */

```

Found in path(s):

/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationAotProcessor.java  
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- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/SetFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/Problem.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CharacterEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/PatternEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanWrapper.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/FatalBeanException.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
- \* /spring-beans-6-1-19-sources-
- jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
- \*
- /spring-beans-6-1-19-sources-
- jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerSupport.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanClassLoaderAware.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ClassEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ListFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/Location.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java

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- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/CustomAutowireConfigurer.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java
- \*

- /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/ParserContext.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/MethodReplacer.java

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- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Autowired.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/DirectFieldAccessor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanUtilsRuntimeHints.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/ArgumentConvertingMethodInvoker.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/AutowiredElementResolver.java

- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanMetadataAttribute.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyAccessorUtils.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/TypeConverterSupport.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanExpressionContext.java
- \* /spring-beans-6-1-19-sources-
- jar/org/springframework/beans/factory/support/BeanDefinitionRegistryPostProcessor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ReplaceOverride.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ParseState.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/MutableSortDefinition.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyValue.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/InstanceSupplier.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/ExtendedBeanInfo.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/LookupOverride.java
- \*
- /spring-beans-6-1-19-sources-
- jar/org/springframework/beans/factory/aot/AutowiredMethodArgumentsResolver.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/ConfigurablePropertyAccessor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/MethodOverride.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/YamlProcessor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsAotContribution.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsAotProcessor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanDefinitionMethodGenerator.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionResource.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/AutowiredFieldValueResolver.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedProperties.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/RuntimeBeanNameReference.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java

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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/MethodInvokingBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertyPathFactoryBean.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanCreationException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/TypeConverterDelegate.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCodeGenerator.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyEditorRegistrySupport.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/StandardBeanInfoFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AutowireUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationAotContribution.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/NullBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/CachedIntrospectionResults.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParserDelegate.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCodeFragments.java
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\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java  
\*  
/spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java  
\* /spring-beans-6-1-19-sources-  
jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyBatchUpdateException.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanPostProcessor.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanMetadataElement.java  
\*  
/spring-beans-6-1-19-sources-jar/org/springframework/beans/TypeConverter.java  
\* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java  
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jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java  
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jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/AnnotatedBeanDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
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/spring-beans-6-1-19-sources-jar/org/springframework/beans/NotReadablePropertyException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanNameAware.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/URLEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/NamedBean.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/Scope.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ReaderEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/NullValueInNestedPathException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanInitializationException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
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- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanDefinition.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Value.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/PropertyEntry.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/MapFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ScopeNotActiveException.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Lookup.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/FactoryBean.java
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- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/EmptyReaderEventListener.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyEditorRegistry.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/FactoryBeanNotInitializedException.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java

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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanExpressionException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/ConversionNotSupportedException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/NamespaceHandler.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanReference.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DocumentLoader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanFactoryAware.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Configurable.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/SortDefinition.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ProblemReporter.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanIsAbstractException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/PassThroughSourceExtractor.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/MethodInvocationException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/ListableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionPropertyValueCodeGeneratorDelegates.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
* /spring-beans-6-1-19-sources-

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jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java

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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/Mergeable.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedArray.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyAccessorFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyMatches.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/InitializingBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/ObjectFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/ObjectProvider.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyAccessException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyValues.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/PagedListHolder.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/NotWritablePropertyException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/Aware.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/DisposableBean.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/InvalidPropertyException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/SingletonBeanRegistry.java
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- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ReaderEventListener.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
- \*
- /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
- \* /spring-beans-6-1-19-sources-
- jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
- \* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyValuesEditor.java

## 1.217 hikaricp 5.1.0

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- \* /hikaricp-5-1-0-sources-3-
- jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTrackerFactory.java

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\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyStatement.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/PropertyElf.java

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/hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/HikariPoolMXBean.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/HikariConfigMXBean.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java

\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/HikariDataSource.java

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- \* /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
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- \* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
- \* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
- \* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
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/hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/HikariPool.java

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\* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/ClockSource.java

## 1.218 jetty-ee10-servlet 12.0.19

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- \* org.apache.tomcat:tomcat-util
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- \* 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

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* org.eclipse.jetty.toolchain:jetty-schemas

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- \* 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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- \* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api

- \* javax.transaction:javax.transaction-api

- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

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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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# 1.219 flyway-core 10.10.0

## 1.219.1 Available under license :

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Found in path(s):

- \* /flyway-core-10-10-0-sources-jar/assets/report/report.css

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```

Found in path(s):

- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/ClasspathClassScanner.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/SqlStatementIterator.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/StopWatch.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/Parser.java
- \*
- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/MigrationInfoService.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/FlywayTelemetryManager.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/callback/Callback.java
- \* /flyway-core-10-10-0-sources-
- jar/org/flywaydb/core/internal/scanner/classpath/JarFileClassPathLocationScanner.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/apachecommons/ApacheCommonsLog.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/migration/Context.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/ConfigurationProvider.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/ResourceName.java

```

* /flyway-core-10-10-0-sources-
jar/org/flywaydb/core/internal/resolver/sql/DefaultSqlMigrationExecutorFactory.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/ConfigUtils.java
*
/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/h2/H2DatabaseType.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/schemahistory/SchemaHistory.java
* /flyway-core-10-10-0-sources-
jar/org/flywaydb/core/internal/exception/FlywayDbUpgradeRequiredException.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineAppliedMigration.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScript.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/DbRepair.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/TransactionalExecutionTemplate.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/DbBaseline.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/RepairResult.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/DbInfo.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/TimeFormat.java
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jar/org/flywaydb/core/internal/configuration/resolvers/EnvironmentProvisionerNone.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/ExternalProcessRunner.java
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* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/package-info.java
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jar/org/flywaydb/core/internal/configuration/resolvers/PropertyResolverContext.java
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* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/callback/SqlScriptCallbackFactory.java
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*
/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/ResourceNameParser.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/ErrorOutput.java
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* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/ParsingContext.java
* /flyway-core-10-10-0-sources-
jar/org/flywaydb/core/internal/license/FlywayEditionUpgradeRequiredException.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/FlywayExecutor.java

```



- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/CommunityDatabaseType.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/Token.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/FlywayLicensingException.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/ObjectMapperFactory.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/MigrationState.java
- \*
- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/exception/FlywayValidateException.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/SqlStatement.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/Database.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/publishing/OperationResultPublisher.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/multi/MultiLogger.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/logging/package-info.java
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- \* /flyway-core-10-10-0-sources-
- jar/org/flywaydb/core/internal/configuration/resolvers/EnvironmentVariableResolver.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/FeatureDetector.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/slf4j/Slf4jLog.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/package-info.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/info/MigrationInfoImpl.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteTable.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/DbMigrate.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/InfoTelemetryModel.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/exception/FlywaySqlException.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/RecordingReader.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/ResourceNameValidator.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/BomFilter.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/TelemetryPlugin.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/CommandExtension.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/PlaceholderReplacingReader.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/script/ScriptMigrationExecutor.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/callback/Warning.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/AsciiTable.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/filesystem/FileSystemResource.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/CommandExtensionUtils.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/HtmlTableRenderer.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/InfoHtmlRenderer.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/Type.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/sql/SqlMigrationResolver.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/FlywaySqlScriptException.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/clazz/NoopClassProvider.java

- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/proprietaryStubs/AuthCommandExtensionStub.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/InsertRowLock.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/clean/CleanModel.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/FlywayRedgateLicenseKeyException.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/javautil/JavaUtilLogCreator.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/StatementType.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/executor/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/sql/SqlMigrationExecutor.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/ProgressLogger.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/StatementInterceptor.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/EncryptionUtils.java
- \* /flyway-core-10-10-0-sources-
- jar/org/flywaydb/core/internal/resource/filesystem/FlywayEncodingDetectionException.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/Result.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/ResourceNameCache.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/AbbreviationUtils.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/logging/Log.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/DatabaseExecutionStrategy.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/schemahistory/BaseAppliedMigration.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/TimeSpecifierUtils.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/filesystem/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/Recorder.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/JdbcTemplate.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/callback/Event.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptExecutorFactory.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/ExecutionTemplate.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/callback/package-info.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/buffered/BufferedLogCreator.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/info/MigrationInfoContext.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/callback/Context.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/reports/json/HtmlResultDeserializer.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/FlywayExpiredLicenseKeyException.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/UnboundedReadAheadReader.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/EvolvingLog.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/pattern/ValidatePattern.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/ClassProvider.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/ExecutionTemplateFactory.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/ProgressLoggerEmpty.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/package-info.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/InfoOutputProvider.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/multi/MultiLogCreator.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/java/ScanningJavaMigrationResolver.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteParser.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/ResourceTypeProvider.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/BaselineResult.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/callback/Error.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/classpath/ClassPathResource.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteDatabase.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/FlywayInvalidLicenseKeyException.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/resolvers/EnvironmentProvisioner.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/FlywayPermit.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/FlywayTeamsUpgradeMessage.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/callback/BaseCallback.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/Connection.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/log4j2/Log4j2LogCreator.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/configuration/FluentConfiguration.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/buffered/BufferedLog.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/ChecksumCalculator.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/strategy/RetryStrategy.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/OperationResultBase.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/FlywayDbWebsiteLinks.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/HtmlResult.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineJavaMigration.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/MigrationType.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/FlywayInvalidLicenseKeyException.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/clean/SchemaModel.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/java/JavaMigrationExecutor.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/RowMapper.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/exception/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/JdbcConnectionFactory.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/h2/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/ErrorImpl.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/MigrationVersion.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/sql/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/TableLockingExecutionTemplate.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/AppliedMigration.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/HtmlRenderer.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/configuration/Configuration.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/ValidatePatternUtils.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/HoldingRenderer.java

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 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/executor/MigrationExecutor.java  
 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/plugin/PluginRegister.java  
 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/OsgiClassPathLocationScanner.java  
 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/ExceptionUtils.java  
 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/ListDeserializer.java  
 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/FlywayTrialExpiredException.java  
 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/reports/json/MigrateResultDeserializer.java  
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 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/resource/package-info.java  
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 \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/callback/DefaultCallbackExecutor.java

- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/info/MigrationInfoDumper.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/h2/H2Database.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/ResourceType.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/CloseableIterator.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/CommandResultFactory.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/BomStrippingReader.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/reports/html/HoldingTabMetadata.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/MigrateResult.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/MigrateOutput.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/PeekingReader.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/MigrationPattern.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/Delimiter.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/ErrorCode.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/ClassUtils.java
- \* /flyway-core-10-10-0-sources-
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/reports/json/InfoResultDeserializer.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/PlainExecutionTemplate.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/ProgressLoggerSynchronized.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/PositionTrackingReader.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/Pair.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/javautil/JavaUtilLog.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/package-info.java
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- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/authentication/ExternalAuthFileReader.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/MigrateHtmlRenderer.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/info/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/log4j2/Log4j2Log.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/Tier.java
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- /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/sql/SqlMigrationExecutorFactory.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/ClassPathLocationScanner.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/CleanModePlugin.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/RootTelemetryModel.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/schemahistory/package-info.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/resolvers/EnvironmentResolver.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/ParsedSqlStatement.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptMetadata.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/resource/LoadableResource.java
- \* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/ParserSqlScript.java
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/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/info/AppliedMigrationAttributes.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/BaseDatabaseType.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/JsonUtils.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/classpath/package-info.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteDatabaseType.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/reports/html/HtmlReportGenerator.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/LocationScannerCache.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/OperationResultJsonBase.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/slf4j/package-info.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/DefaultSqlScriptExecutor.java
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/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/sqlite/package-info.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/InfoResult.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/FlywayTrialExpiredException.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/TestContainersDatabaseType.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/CoreMigrationType.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/CompositeResult.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/package-info.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/MigrateErrorResult.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/clean/CleanExecutor.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/models/EnvironmentModel.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/DataUnits.java
*
/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/cloud/s3/AwsS3Scanner.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/DefaultExecutionStrategy.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/callback/ArbitraryScriptCallback.java
* /flyway-core-10-10-0-sources-
jar/org/flywaydb/core/internal/configuration/resolvers/PropertyResolverContextImpl.java
* /flyway-core-10-10-0-sources-
jar/org/flywaydb/core/internal/proprietaryStubs/LicensingConfigurationExtensionStub.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/h2/H2Table.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/PluginMetadata.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/Schema.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/configuration/ClassicConfiguration.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/Statement.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/ResourceAndClassScanner.java
*
/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/SchemaObject.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/CollectionsUtils.java
* /flyway-core-10-10-0-sources-
jar/org/flywaydb/core/internal/scanner/classpath/FileSystemClassPathLocationScanner.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteSchema.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/license/VersionPrinter.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/info/MigrationFilterImpl.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/h2/H2Schema.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/logging/apachecommons/package-info.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/resource/Resource.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/EventTelemetryModel.java

```

```

*
/flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/exception/FlywayBlockStatementExecutionException.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/callback/CallbackExecutor.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/models/FlywayModel.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/UrlUtils.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineMigrationType.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/InfoOutput.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/logging/LogCreator.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/models/ResolvedEnvironment.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/CompositeMigrationResolver.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/Scanner.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/database/base/Table.java
*
/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/HtmlUtils.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/extensibility/HtmlReportSummary.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/jdbc/WarningImpl.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/ValidateResult.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/DbValidate.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resolver/package-info.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/callback/NoopCallback.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/DateUtils.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/logging/LogFactory.java
* /flyway-core-10-10-0-sources-
jar/org/flywaydb/core/internal/logging/apachecommons/ApacheCommonsLogCreator.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/UrlResolver.java
*
/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/command/package-info.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/LocalDateTimeSerializer.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/parser/PositionTracker.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptFactory.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/ValidateOutput.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/scanner/cloud/CloudScanner.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/resource/s3/AwsS3Resource.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/models/PropertyResolver.java
* /flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/output/package-info.java

```

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-->

Found in path(s):

- \* /flyway-core-10-10-0-sources-jar/assets/report/infoBlobs/info.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/reportScript.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/holdingTabs/migrate.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/infoBlobs/dryrun.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/holdingTabs/changes.html
- \*
- /flyway-core-10-10-0-sources-jar/assets/report/infoBlobs/changes.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/infoBlobs/drift.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/holdingTabs/drift.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/upgradeTabs/changes.html
- \* /flyway-core-10-10-0-sources-jar/META-INF/maven/org.flywaydb/flyway-core/pom.xml
- \* /flyway-core-10-10-0-sources-jar/assets/report/footer.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/infoBlobs/migrate.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/upgradeTabs/drift.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/holdingTabs/dryrun.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/upgradeTabs/dryrun.html
- \* /flyway-core-10-10-0-sources-jar/assets/report/holdingTabs/code.html

## 1.220 py3-setuptools-pyc 70.3.0-r0

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## 1.221 pax-utils 1.3.8-r1

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## 1.223 latencyutils 2.0.3

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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## 1.225 prometheus-metrics-exposition-formats

### 1.2.1

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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.prometheus.metrics.config,io.prometheus.metrics.expositionformats.generated.com\_google\_protobuf\_3\_25\_3,io.prometheus.metrics.model.snapshots";version="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.prometheus.metrics.model.snapshots;version="[1.2,2)",io.prometheus.metrics.shaded.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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\* /prometheus-metrics-exposition-formats-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-exposition-formats/pom.xml

## 1.226 Idns 1.8.4-r0

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## 1.227 pcre 10.43-r0

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd

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- \*
- /spring-web-6-1-19-sources-jar/org/springframework/http/client/observation/ClientRequestObservationContext.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/PathExtensionContentNegotiationStrategy.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/xml/SourceHttpMessageConverter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MaxUploadSizeExceededException.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/DefaultHttpStatusCode.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/ResourceHttpMessageConverter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/async/WebAsyncTask.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriComponentsBuilder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/ServerHttpObservationFilter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestClientResponseException.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/HttpExchange.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractServerHttpResponse.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/support/Netty4HeadersAdapter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartEventHttpMessageReader.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/async/CallableInterceptorChain.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/WebUtilRuntimeHints.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/ProblemDetailRuntimeHints.java
- \* /spring-web-6-1-19-sources-

```

jar/org/springframework/http/server/reactive/observation/DefaultServerRequestObservationConvention.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/request/async/StandardServletAsyncWebRequest.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServerHttpResponseDecorator.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/ResponseCookie.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletRequestHandledEvent.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/request/async/AsyncRequestNotUsableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/support/HttpComponentsHeadersAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapter/HttpWebHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerSentEvent.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/UnknownContentTypeException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/HandlerMethodValidationException.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JettyClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ReactorNettyClientRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ChannelSendOperator.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/client/observation/DefaultClientRequestObservationConvention.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JdkClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/support/JettyHeadersAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/InvocableHandlerMethod.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/StringHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpResponse.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/filter/DelegatingFilterProxy.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/ModelFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapter/ForwardedHeaderTransformer.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServletServerHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/SessionAttributesHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/HandlerMethodValidator.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/DefaultRestClientBuilder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpConnector.java
*
/spring-web-6-1-19-sources-
jar/org/springframework/web/multipart/support/StandardMultipartHttpServletRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/PatchMapping.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/DefaultUriBuilderFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequestFactory.java

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- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/HttpAccessor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/ServletWebRequest.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpHeaders.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/ServletRequestPathUtils.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/util/ContentCachingRequestWrapper.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/web/bind/annotation/ControllerMappingReflectiveProcessor.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/web/service/invoker/AbstractNamedValueArgumentResolver.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JettyClientHttpConnector.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/HttpServiceMethod.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/InterceptingClientHttpRequest.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/http/client/reactive/HttpComponentsClientHttpResponse.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/MediaTypeFactory.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractClientHttpResponse.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/KotlinSerializationStringEncoder.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/util/UrlPathHelper.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestClient.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/AbstractClientHttpResponse.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/JdkClientHttpRequest.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/AbstractJackson2Decoder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestTemplate.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/CacheControl.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServletServerHttpResponse.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/support/Netty5HeadersAdapter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/RequestHandledEvent.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/server/ResponseStatusException.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/ForwardedHeaderFilter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/PathPattern.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/JacksonModulesRuntimeHints.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/reactive/ServerHttpObservationFilter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ReactorNettyClientRequest.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/GetMapping.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/MultipartFilter.java

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* /spring-web-6-1-19-sources-jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/xml/AbstractXmlHttpRequestMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestOperations.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/HtmlCharacterEntityReferences.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/ContentCachingResponseWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractListenerWriteProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/xml/Jaxb2XmlEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/DefaultErrorResponseBuilder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/DeleteMapping.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/JettyHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/PostMapping.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/xml/JaxbContextContainer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/HandlerMethod.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/support/RestClientAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/RegexPathElement.java
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```

* /spring-web-6-1-19-sources-jar/org/springframework/web/server/DefaultServerWebExchangeBuilder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/PathVariable.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/AbstractRequestAttributes.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/ZeroCopyHttpOutputMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/LoggingCodecSupport.java

```

- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/ResponseExtractor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/CorsProcessor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/server/handler/FilteringWebHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpLogging.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpOutputMessage.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RequestParam.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/context/ServletContextAware.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/GroovyWebApplicationContext.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/ResponseErrorHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageNotReadableException.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/MappingJacksonValue.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/web/method/annotation/ErrorsMethodArgumentResolver.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/SslInfo.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RequestBody.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/ServletConfigAware.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageDecoder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ContextPathCompositeHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageEncoder.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/web/method/annotation/ExpressionValueMethodArgumentResolver.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/CodecConfigurerFactory.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/InitBinderDataBinderFactory.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpSessionRequiredException.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/InvalidMediaTypeException.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/filter/CharacterEncodingFilter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/HttpHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufHttpMessageWriter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpInputMessage.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/BufferingClientHttpRequestFactory.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RequestHeader.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriTemplateHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/MatrixVariable.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/server/WebSession.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ResponseBody.java



\* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ParameterContentNegotiationStrategy.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/XmlWebApplicationContext.java

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\* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpClientErrorException.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java

\*

/spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/client/UnknownHttpStatusException.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpStatusException.java

\* /spring-web-6-1-19-sources-

jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextScope.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestOperationsExtensions.kt

\* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ClientHttpRequestInitializer.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/CorsWebFilter.java

\* /spring-web-6-1-19-sources-

jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java

\*

/spring-web-6-1-19-sources-jar/org/springframework/web/context/request/ServletRequestAttributes.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServerHttpRequest.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/server/handler/WebHandlerDecorator.java

\* /spring-web-6-1-19-sources-

jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java

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* limitations under the License.
*/
/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method
does not automatically create a session. See {@link WebSession}
 * for more details.
*/

```

Found in path(s):

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* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerWebExchange.java
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```

```

This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.
#
The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to
identify "new" types. File extensions are also commonly used to indicate
content languages and encodings, so choose them carefully.
#
Internet media types should be registered as described in RFC 4288.
The registry is at <https://www.iana.org/assignments/media-types/>.
#
This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
MIME type (lowercased) Extensions
=====
#

```

application/1d-interleaved-parityfec  
# application/3gpdash-qoe-report+xml  
# application/3gpp-ims+xml  
# application/a2l  
# application/activemessage  
# application/alto-costmap+json  
# application/alto-costmapfilter+json  
# application/alto-directory+json  
# application/alto-endpointcost+json  
# application/alto-endpointcostparams+json  
# application/alto-endpointprop+json  
# application/alto-endpointpropparams+json  
# application/alto-error+json  
# application/alto-networkmap+json  
# application/alto-networkmapfilter+json  
# application/aml

Found in path(s):

\* /spring-web-6-1-19-sources-jar/org/springframework/http/mime.types

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\* /spring-web-6-1-19-sources-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletConfigPropertySource.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java

\*

/spring-web-6-1-19-sources-jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextPropertySource.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ClientHttpRequest.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java

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\* /spring-web-6-1-19-sources-jar/org/springframework/http/client/JdkClientHttpResponse.java

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```

Found in path(s):

\* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpRequestDecorator.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/server/DefaultRequestPath.java

\*

/spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java

\* /spring-web-6-1-19-sources-

jar/org/springframework/web/method/annotation/RequestParamMapMethodArgumentResolver.java

\* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriBuilderFactory.java

\* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/AbstractJsonHttpMessageConverter.java

\* /spring-web-6-1-19-sources-

jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java

```

* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/CorsFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/ServletContextPropertyUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/WebRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/StandardServletPartUtils.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/codec/ResourceHttpMessageReader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestClientException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/DelegatingServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/DefaultWebSessionManager.java
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```

Found in path(s):

```

* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/CorsProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/NativeWebRequest.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/UriComponentsContributor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/async/AsyncWebRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/SessionAttributeStore.java
*

```

/spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/Part.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/RequestAttributes.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/web/server/i18n/LocaleContextResolver.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/ProxyFactoryBean.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/async/TimeoutCallableProcessingInterceptor.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartException.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FormFieldPart.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RestController.java  
\* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/MappingJacksonInputMessage.java  
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\*/

Found in path(s):

```
* /spring-web-6-1-19-sources-
jar/org/springframework/http/codec/protobuf/KotlinSerializationProtobufDecoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/PathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingRequestHeaderException.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/cors/UrlBasedCorsConfigurationSource.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingMatrixVariableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/HttpMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/DefaultSslInfo.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpMediaTypeException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageReader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/client/observation/ClientRequestObservationConvention.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerCodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/UnsatisfiedRequestParameterException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/UndertowHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/multipart/support/MissingServletRequestPartException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/HttpRequestWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/KotlinSerializationCborEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/ErrorResponseException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/SeparatorPathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/RequestPath.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/PatchExchange.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/codec/protobuf/KotlinSerializationProtobufEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartEvent.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/NotAcceptableStatusException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/server/observation/ServerRequestObservationContext.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/support/HandlerMethodReturnValueHandlerComposite.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/MapMethodProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/GenericFilterBean.java
*
```

```

/spring-web-6-1-19-sources-
jar/org/springframework/web/service/annotation/HttpExchangeReflectiveProcessor.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/bind/annotation/ExceptionHandlerReflectiveProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/RequestEntity.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/BaseDefaultCodecs.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/WebSessionStore.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/bind/UnsatisfiedServletRequestParameterException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/json/KotlinSerializationJsonHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoke/RequestParamArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/OncePerRequestFilter.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ModelAttribute.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoke/UrlArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/CookieGenerator.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ContentNegotiationManager.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/WebApplicationContextUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/PathPatternRouteMatcher.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/ServerDefaultCodecsImpl.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2SmileEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/IntrospectingClientHttpResponse.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/service/invoke/HttpServiceArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/AbstractRequestAttributesScope.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapters/AbstractReactiveWebInitializer.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/service/invoke/RequestAttributeArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartEventHttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/CaptureVariablePathElement.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/cbor/MappingJackson2CborHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpResponseDecorator.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FilePartEvent.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/handler/ResponseStatusExceptionHandler.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/DefaultClientCodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/ClientDefaultCodecsImpl.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ExceptionHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartHttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/server/observation/ServerRequestObservationConvention.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/HandlerTypePredicate.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/RequestContextListener.java

```



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* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonDecoder.java
*
/spring-web-6-1-19-sources-
jar/org/springframework/http/server/reactive/observation/ServerHttpObservationDocumentation.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/support/AllEncompassingFormHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingRequestValueException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/ContextCleanupListener.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/ExtractingResponseErrorHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/BaseCodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/WebSessionIdResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/CodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/StaticWebApplicationContext.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JdkHttpClientResourceFactory.java
*
/spring-web-6-1-19-sources-
jar/org/springframework/http/converter/KotlinSerializationBinaryHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/MissingRequestValueException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/PutExchange.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/support/RestGatewaySupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2SmileDecoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestBindingException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/DecoderHttpMessageReader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/FacesContextUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/EncoderHttpMessageWriter.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/filter/RelativeRedirectResponseWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/CaptureTheRestPathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/CodecConfigurerRuntimeHints.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/protobuf/KotlinSerializationProtobufHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/KotlinSerializationCborDecoder.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/support/HandlerMethodReturnValueHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorNetty2HttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/MethodNotAllowedException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/InitBinder.java
*
/spring-web-6-1-19-sources-
jar/org/springframework/http/server/observation/ServerHttpObservationDocumentation.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/KotlinSerializationStringHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/ModelMethodProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerErrorException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/KotlinSerializationBinaryEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartWriterSupport.java

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* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufCodecSupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerWebInputException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FormPartEvent.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageWriter.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/context/support/StandardServletEnvironment.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/DelegatingNavigationHandlerProxy.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/CookieValueArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/JavaScriptUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/DefaultResponseErrorHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingRequestCookieException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/GetExchange.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/cbor/KotlinSerializationCborHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/PathVariableArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/PostExchange.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/filter/RelativeRedirectFilter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/smile/MappingJackson2SmileHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpMimeTypesRuntimeHints.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/DeleteExchange.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/server/reactive/observation/ServerRequestObservationConvention.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ClientCodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/RequestHeaderArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServletServerHttpResponse.java
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```

* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/RequestContextFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageNotWritableException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/HttpSessionMutexListener.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/WebFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/WebFilterChain.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageConversionException.java
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```

* /spring-web-6-1-19-sources-jar/org/springframework/http/ContentDisposition.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/HttpComponentsClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServletHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestDataBinder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/JsonbHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/ObjectToStringHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/StreamingHttpOutputMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/i18n/AcceptHeaderLocaleContextResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpCookie.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
*

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/spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartGenerator.java  
 \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageWriter.java  
 \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorNetty2ServerHttpRequest.java  
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 \* /spring-web-6-1-19-sources-jar/org/springframework/http/MediaType.java  
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 /spring-web-6-1-19-sources-jar/org/springframework/web/server/UnsupportedMediaTypeStatusException.java  
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 \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorUriHelper.java  
 \* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpStatusCode.java

- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpRequest.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpRequest.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriBuilder.java
- \* /spring-web-6-1-19-sources-
- jar/org/springframework/web/method/annotation/MethodArgumentConversionNotSupportedException.java
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- /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/GsonHttpMessageConverter.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpMethod.java
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- jar/org/springframework/web/context/request/async/DeferredResultInterceptorChain.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpResponse.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestClientUtils.java
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- /spring-web-6-1-19-sources-jar/org/springframework/http/client/SimpleClientHttpResponse.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/KotlinSerializationSupport.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/ContextLoader.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoke/HttpClientAdapter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ResourceHttpMessageWriter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/ProblemDetail.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoke/HttpServiceProxyFactoryExtensions.kt
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/AbstractGenericHttpMessageConverter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpRange.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/BufferingClientHttpResponseWrapper.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JettyResourceFactory.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebDataBinderFactory.java
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- jar/org/springframework/http/converter/AbstractKotlinSerializationHttpMessageConverter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoke/HttpServiceProxyFactory.java

- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/CookieWebSessionIdResolver.java
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- \* /spring-web-6-1-19-sources-
- jar/org/springframework/http/client/reactive/HttpComponentsClientHttpConnector.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriUtils.java
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- /spring-web-6-1-19-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/RequestContextHolder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageReader.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/OutputStreamPublisher.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/reactive/ServerWebExchangeContextFilter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/AbstractJackson2Encoder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2JsonEncoder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoke/HttpRequestValues.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/WebUtils.java
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- jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/NestedServletException.java
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- jar/org/springframework/web/service/annotation/HttpExchangeBeanRegistrationAotProcessor.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartParser.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/TagUtils.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/SingleCharWildcardPathElement.java
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- jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/server/handler/ExceptionHandlerWebHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/ForwardedHeaderUtils.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/CorsUtils.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java
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- /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebRequestDataBinder.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapters/DefaultServerWebExchange.java

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* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/FormHttpMessageReader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpServerErrorException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonXmlMixin.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MethodArgumentNotValidException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapters/HandlerMethod.java
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/spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorResourceFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractStreamingClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/DefaultPartEvents.java
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Found in path(s):
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServerHttpResponse.java
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Found in path(s):

- \* /spring-web-6-1-19-sources-jar/org/springframework/web/server/handler/DefaultWebFilterChain.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FileStorage.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/CookieValue.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FilePart.java
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- /spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestWebFilter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpRequestHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RequestCallback.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageReader.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/CompositeUriComponentsContributor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
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- \* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageConverter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/protobuf/ProtobufJsonFormatHttpMessageConverter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/RequestHeaderMethodArgumentResolver.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/WriteResultPublisher.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
- \*
- /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriComponents.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractListenerServerHttpResponse.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartFile.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JdkClientHttpConnector.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/FormContentFilter.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/SpringServletContainerInitializer.java
- \* /spring-web-6-1-19-sources-jar/org/springframework/web/WebApplicationInitializer.java
- \* /spring-web-6-1-19-sources-

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jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java
*
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* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/FormHttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/ExceptionHandlerMethodResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServerHttpRequest.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/UndertowHeadersAdapter.java
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/spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/HtmlUtils.java

```

## 1.234 alpine-release 3.21.3-r0

### 1.234.1 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"
buildid="$srcdir/$_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="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5 cargo-license-0.6.1.tar.gz
"

```

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# Contributor: Dhruvin Gandhi <contact@dhruvin>

# 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" \
.d/dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
license_expression-30.4.0.tar.gz
"
MIT License

```

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[vintagedreamworks@hotmail.com](mailto:vintagedreamworks@hotmail.com)

<http://www.geocities.com/SiliconValley/Campus/8645/index.html>

<http://members.nbc.com/silicon39/>

<http://www.mp3.com/silicon39>

<https://analoguesque.x10host.com/>

# Maintainer: Natanael Copa <[ncopa@alpinelinux.org](mailto: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

Copyright 1999,2015 by Jef Poskanzer <[jef@mail.acme.com](mailto:jef@mail.acme.com)>.

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# 1.235 checker-qual 3.33.0

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# 1.236 python-certifi 2024.08.30

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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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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.237 font-dejavu 2.37-r5

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\$Id\$

## 1.238 spring-web-mvc 6.1.19

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Found in path(s):

- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HandlerInterceptor.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/EncodedResourceResolver.java
- \*
- /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/condition/AbstractNameValueExpression.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/function/support/HandlerFunctionAdapter.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RouterFunctionBuilder.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java
- \*
- /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RequestPredicates.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerView.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RouterFunctions.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
- \*

```

/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RouterFunctionDsl.kt
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/function/PredicateResourceLookupFunction.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/ServerResponse.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/AbstractView.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/DefaultServerRequest.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
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Found in path(s):

```

* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/SmartView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/TagIdGenerator.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
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*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
* protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/

```

Found in path(s):

```

* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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```

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\* /spring-webmvc-6-1-19-sources-  
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java  
\* /spring-webmvc-6-1-19-sources-  
jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java  
\*  
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceTransformer.java  
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\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ParamTag.java  
\* /spring-webmvc-6-1-19-sources-  
jar/org/springframework/web/servlet/config/ScriptTemplateConfigurerBeanDefinitionParser.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HandlerExceptionResolver.java  
\*  
/spring-webmvc-6-1-19-sources-  
jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ArgumentTag.java  
\* /spring-webmvc-6-1-19-sources-  
jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/RequestContextAwareTag.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/TransformedResource.java  
\* /spring-webmvc-6-1-19-sources-  
jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java  
\* /spring-webmvc-6-1-19-sources-  
jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java



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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/condition/NameValueExpression.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/EvalTag.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/AbstractController.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HttpServletBean.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/AbstractVersionStrategy.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/script/RenderingContext.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/TransformTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/View.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceTransformerSupport.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/ValueFormatter.java
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\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java  
\*  
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/XmlViewResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/AsyncServerResponse.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/CorsRegistry.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ContinuationHandlerMethodArgumentResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java  
\*  
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HandlerMapping.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/WebContentGenerator.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/PrincipalMethodArgumentResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/BeanNameViewResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/ViewResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/ContentNegotiationConfigurer.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java  
\*  
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java  
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*/
/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* {@link #locateSource} detected during response rendering. Users can either specify
* a specific entry in the
* model via the {@link #setSourceKey sourceKey} property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See {@link #getSourceTypes() here}
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure {@link #setOutputProperties output properties}
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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Found in path(s):

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\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/mvc/condition/AbstractMediaTypeExpression.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java

\*

/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/PathResourceResolver.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/MappedInterceptor.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/OptionsTag.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/UrlTag.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/VersionResourceResolver.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/mvc/condition/RequestMethodRequestCondition.java

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/spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/FormTag.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/DispatcherServlet.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/LabelTag.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/ModelAndView.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/SelectTag.java

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/spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/ErrorsTag.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/RedirectView.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/function/DefaultServerResponseBuilder.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/ButtonTag.java

\* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/handler/AbstractHandlerMethodExceptionResolver.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java

- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/MessageTag.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
- \*
- /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/AbstractServerResponse.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateView.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/NoResourceFoundException.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/SseEmitter.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
- \*
- /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyMethodProcessor.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/ToStringVisitor.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitterReturnValueHandler.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/ErrorHandlingServerResponse.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/ContentNegotiatingViewResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/HandlerFilterFunction.java
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- jar/org/springframework/web/servlet/mvc/method/annotation/RequestAttributeMethodArgumentResolver.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistry.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/RequestContext.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/ServerRequest.java
- \*
- /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMapMethodArgumentResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/BindTag.java
- \* /spring-webmvc-6-1-19-sources-

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jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/TextareaTag.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/SimpleUrlHandlerMapping.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/xml/MarshallingView.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/DefaultAsyncServerResponse.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/FlashMap.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/SseServerResponse.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/RadioButtonsTag.java
* /spring-webmvc-6-1-19-sources-
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*
/spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/condition/PathPatternsRequestCondition.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletCookieValueMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletModelAttributeMethodProcessor.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/UrlBasedViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/JstlUtils.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/ParameterizableViewController.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurer.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewMethodReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceUrlEncodingFilter.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/PathResourceLookupFunction.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/annotation/ResponseStatusExceptionHandlerResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/DefaultEntityResponseBuilder.java

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*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/OptionTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/OptionWriter.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/FrameworkServlet.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver.
java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/handler/PathPatternMatchableHandlerMapping.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/ServerResponseExtensions.kt
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBodyReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/SessionAttributeMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RenderingResponse.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.jav
a
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/HandlerFunction.java

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* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RouterFunction.java
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/spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/ServerRequestExtensions.kt
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/condition/AbstractRequestCondition.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
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Found in path(s):

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* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java
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- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
- \*
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ArgumentAware.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/VersionStrategy.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java

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- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/TagWriter.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/SimpleMappingExceptionHandlerResolver.java
- \*
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RequestPredicate.java

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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/SelectedValueComparator.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HandlerExecutionChain.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyAdviceChain.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/ViewResolverRegistry.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/ViewResolversBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/Controller.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HandlerAdapter.java
*
/spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/function/ChangePathPatternParserVisitor.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java
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* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/FlashMapManager.java
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- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
- \*
- /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/BindStatus.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/json/AbstractJackson2View.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/LocaleResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
- \*
- /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/ThemeResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/support/AbstractDispatcherServletInitializer.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/function/DefaultRenderingResponseBuilder.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/config/annotation/RedirectViewControllerRegistration.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
- \*
- /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/LocaleContextResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ParamAware.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
- \* /spring-webmvc-6-1-19-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
- \* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java

\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/RequestMatchResult.java  
\*  
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ThemeTag.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java  
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\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/feed/AbstractRssFeedView.java  
\*  
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/document/AbstractXlsView.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceResolver.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/Param.java  
\*  
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java  
\* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java  
\* /spring-webmvc-6-1-19-sources-

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jar/org/springframework/web/servlet/mvc/method/annotation/HttpHeadersReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/HttpResource.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/JstlView.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/annotation/ResourceChainRegistration.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.java
a
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/InternalResourceView.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/AsyncHandlerInterceptor.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/RequestToViewNameTranslator.java

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## 1.241 spring-context 6.1.19

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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provides a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */
```

Found in path(s):

`/spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java`

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Found in path(s):

```

* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/NoSuchMessageException.java
* /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
*
/spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java

```

```

*
/spring-context-6-1-19-sources-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/HierarchicalMessageSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationContextAware.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/SchedulingException.java
* /spring-context-6-1-19-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/EnableMBeanExport.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/Formatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/config/ContextNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/Phased.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/MessageCodesResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/JmxException.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptSource.java
* /spring-context-6-1-19-sources-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiLookupFailureException.java
*
/spring-context-6-1-19-sources-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/MBeanExportException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/context/support/ResourceBundleMessageSource.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/CronTask.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/ResourceScriptSource.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/validation/support/BindingAwareModelMap.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/format/FormatterRegistrar.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/CacheExtensions.kt
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationEvent.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/EnableAsync.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/ResourceLoaderAware.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/CacheManagerExtensions.kt
- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiCallback.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
- \*
- /spring-context-6-1-19-sources-
- jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/config/CacheAdviceParser.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/SmartApplicationListener.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/EnableScheduling.java

\* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheEvictOperation.java

\* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/MapAccessor.java

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\*/

/\*\*

\* Indicates that a component is only eligible for registration when all

\* {@linkplain #value specified conditions} match.

\*

\* <p>A <em>condition</em> is any state that can be determined programmatically

\* before the bean definition is due to be registered (see {@link Condition} for details).

\*

\*

<p>The {@code @Conditional} annotation may be used in any of the following ways:

\* <ul>

\* <li>as a type-level annotation on any class directly or indirectly annotated with

\* {@code @Component}, including {@link Configuration @Configuration} classes</li>

\* <li>as a meta-annotation, for the purpose of composing custom stereotype

\* annotations</li>

\* <li>as a method-level annotation on any {@link Bean @Bean} method</li>

\* </ul>

\*

\* <p>If a {@code @Configuration} class is marked with {@code @Conditional},

\* all of the {@code @Bean} methods, {@link Import @Import} annotations, and

\* {@link ComponentScan @ComponentScan} annotations associated with that

\* class will be subject to the conditions.

\*

\* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations

\* is not supported; any conditions from superclasses or from overridden

\* methods will not be considered. In order to enforce these semantics,

\* {@code @Conditional} itself is not declared as

\* {@link java.lang.annotation.Inherited

@Inherited}; furthermore, any

\* custom <em>composed annotation</em> that is meta-annotated with

```

* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

```

Found in path(s):

```

* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Conditional.java

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```

* /spring-context-6-1-19-sources-jar/org/springframework/context/MessageSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
*
/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Import.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
*
/spring-context-6-1-19-sources-jar/org/springframework/cache/CacheManager.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java

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```
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*/spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
*/spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
*/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConfigurationClassParser.java
*/spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
*/spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/QuartzCronField.java
*/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StandardScriptEvalException.java
- \*
- /spring-context-6-1-19-sources-
- jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Role.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventListenerFactory.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ComponentScans.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptEvaluator.java
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\* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationContext.java  
\* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java  
\*  
/spring-context-6-1-19-sources-jar/org/springframework/format/AnnotationFormatterFactory.java  
\* /spring-context-6-1-19-sources-jar/org/springframework/validation/annotation/Validated.java  
\* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/BasicOperation.java  
\* /spring-context-6-1-19-sources-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java  
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- \* /spring-context-6-1-19-sources-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/NameMatchCacheOperationSource.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/ValidationUtils.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/TypedValidator.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventExpressionRootObject.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/Errors.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/support/ApplicationObjectSupport.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/ObjectNameManager.java
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 \* /spring-context-6-1-19-sources-jar/org/springframework/scripting/bsh/BshScriptFactory.java

- \* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Controller.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/BindException.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ProfileCondition.java
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- /spring-context-6-1-19-sources-jar/org/springframework/validation/SimpleErrors.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/DelayedTask.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventExpressionEvaluator.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/CachedExpressionEvaluator.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/Validator.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/AbstractBindingResult.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/DefaultMethodValidationResult.java
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- /spring-context-6-1-19-sources-jar/org/springframework/scripting/bsh/BshScriptUtils.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/PeriodicTrigger.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanClientInterceptor.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/Trigger.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeContext.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Profile.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/support/AbstractXmlApplicationContext.java
- \* /spring-context-6-1-19-sources-

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* /spring-context-6-1-19-sources-jar/org/springframework/validation/SmartValidator.java
* /spring-context-6-1-19-sources-
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* /spring-context-6-1-19-sources-
jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Component.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/MethodValidationResult.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/aot/ApplicationContextInitializationCodeGenerator.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContextFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeConverters.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/BeanMethod.java
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/spring-context-6-1-19-sources-jar/org/springframework/validation/method/MethodValidationException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportRuntimeHints.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/SourceFilteringListener.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ComponentScan.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CacheConfig.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/DelegatingMessageSource.java
*
/spring-context-6-1-19-sources-jar/org/springframework/cache/support/SimpleValueWrapper.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/AbstractCacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/support/ScheduledTaskObservationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StandardScriptFactory.java
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```

Found in path(s):

```

* /spring-context-6-1-19-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
*
/spring-context-6-1-19-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java

```



```

* /spring-context-6-1-19-sources-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/DefaultMessageCodesResolver.java
*
/spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/ConnectorDelegate.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/MessageSourceResolvable.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
*
/spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MetricType.java
* /spring-context-6-1-19-sources-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiAccessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
*
/spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/Task.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Indexed.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-6-1-19-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/config/CacheNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/support/ConversionServiceFactoryBean.java

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```

 * /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConditionContext.java
 * /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
 *
 /spring-context-6-1-19-sources-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
 * /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
 * /spring-context-6-1-19-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportSelector.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventPublicationInterceptor.java
 * /spring-context-6-1-19-sources-jar/org/springframework/validation/MapBindingResult.java
 * /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
 * /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
 * /spring-context-6-1-19-sources-jar/org/springframework/validation/MessageCodeFormatter.java
 *
 /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationStartupAware.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/event/DefaultEventListenerFactory.java
 * /spring-context-6-1-19-sources-
jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
 * /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
 * /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
 * /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationContextInitializer.java
 * /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/context/aot/RuntimeHintsBeanFactoryInitializationAotProcessor.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/BindingResult.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/ui/context/ThemeSource.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/support/SimpleTheme.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/AotApplicationContextInitializer.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/CglibClassHandler.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/support/GenericGroovyApplicationContext.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/support/DelegatingThemeSource.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ScheduledTask.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/Theme.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/FixedDelayTask.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/MessageSourceAware.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/Caching.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/BeanExpressionContextAccessor.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachePut.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/format/datetime/standard/Jsr310DateTimeFormatAnnotationFormatterFactory.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/BeanFactoryAccessor.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/context/support/AbstractMessageSource.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/i18n/SimpleLocaleContext.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachingConfigurerSupport.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/LoggingCacheErrorHandler.java
- \* /spring-context-6-1-19-sources-

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jar/org/springframework/context/aot/BeanFactoryInitializationAotContributions.java
*
/spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CacheEvict.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/TypeFilterUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/ContextAotProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/ExtendedModelMap.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ConfigurableApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/Model.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
*
/spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventListener.java
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```

* /spring-context-6-1-19-sources-jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
*
/spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/AbstractReflectiveMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/BeanFactoryResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java

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* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Scope.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/EmbeddedValueResolverAware.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiTemplate.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportRegistry.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/MBeanExportOperations.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptCompilationException.java
* /spring-context-6-1-19-sources-
jar/org/springframework/validation/beanvalidation/BeanValidationPostProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/MessageSourceAccessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/annotation/NumberFormat.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
*
/spring-context-6-1-19-sources-jar/org/springframework/validation/AbstractPropertyBindingResult.java
* /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/DependsOn.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiLocatorSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/FormatterRegistry.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/Lifecycle.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiObjectLocator.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AdviceMode.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AdviceModeImportSelector.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/MonthFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/YearFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
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/spring-context-6-1-19-sources-jar/org/springframework/cache/config/CacheManagementConfigUtils.java
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- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportAware.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
- \*

/spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationEventPublisherAware.java

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- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Description.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/FilterType.java
- \*

/spring-context-6-1-19-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java

\* /spring-context-6-1-19-sources-jar/org/springframework/context/i18n/LocaleContext.java

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 \* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/CompositeCacheManager.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java  
 \*  
 /spring-context-6-1-19-sources-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java  
 \* /spring-context-6-1-19-sources-  
 jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/PeriodFormatter.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/Schedules.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/format/Printer.java  
 \*  
 /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiPropertySource.java  
 \* /spring-context-6-1-19-sources-  
 jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/format/Parser.java  
 \* /spring-context-6-1-19-sources-  
 jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java  
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Found in path(s):

- \* /spring-context-6-1-19-sources-
- jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/ContextStoppedEvent.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/CronField.java
- \*
- /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheInterceptor.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/TaskScheduler.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/format/support/DefaultFormattingConversionService.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/ui/ConcurrentModel.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachingConfigurer.java
- \*
- /spring-context-6-1-19-sources-
- jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/ContextRefreshedEvent.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/BitsCronField.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/SmartLifecycle.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/Scheduled.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/context/aot/KotlinReflectionBeanRegistrationAotProcessor.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterUtils.java
- \*
- /spring-context-6-1-19-sources-
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- \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/Async.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/ParameterErrors.java
- \* /spring-context-6-1-19-sources-
- jar/org/springframework/format/support/FormattingConversionServiceFactoryBean.java
- \* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/ParameterValidationResult.java

\* /spring-context-6-1-19-sources-jar/org/springframework/validation/AbstractErrors.java  
 \* /spring-context-6-1-19-sources-  
 jar/org/springframework/scheduling/support/DefaultScheduledTaskObservationConvention.java  
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 \* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/CronTrigger.java  
 \* /spring-context-6-1-19-sources-  
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 \* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/AbstractAotProcessor.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/validation/beanvalidation/MethodValidationAdapter.java  
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 \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java  
 \* /spring-context-6-1-19-sources-  
 jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/validation/DataBinder.java  
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 \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java  
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 \* /spring-context-6-1-19-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java  
 \*  
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 \* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/DateFormatter.java  
 \* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Primary.java

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* /spring-context-6-1-19-sources-jar/org/springframework/context/support/GenericApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskScheduler.java
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* /spring-context-6-1-19-sources-
jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /spring-context-6-1-19-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/annotation/DateTimeFormat.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Condition.java
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* /spring-context-6-1-19-sources-
jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ExecutorLifecycleDelegate.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/GenericApplicationListenerDelegate.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/annotation/ScheduledAnnotationReactiveSupport.java

```

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 \* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Title.java  
 \* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Desc.java  
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\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Group.java  
\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Text.java  
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\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/A.java  
\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Tspan.java

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\* Created on August 15, 2004, 3:33 AM

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\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeCompound.java

\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeDiscrete.java

\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeLookup.java

\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeIndefinite.java

\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeSum.java

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\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Gradient.java

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```
options {
 MULTI=true;
 STATIC=false;
}
```

```
PARSER_BEGIN(AnimTimeParser)
```

```
package com.kitfox.svg.animation.parser;
```

```
import com.kitfox.svg.SVGConst;
import com.kitfox.svg.animation.TimeBase;
import com.kitfox.svg.animation.TimeCompound;
import com.kitfox.svg.animation.TimeDiscrete;
import com.kitfox.svg.animation.TimeIndefinite;
import com.kitfox.svg.animation.TimeLookup;
import com.kitfox.svg.animation.TimeSum;
import
 java.io.StringReader;
import java.util.ArrayList;
```

```

import java.util.logging.Level;
import java.util.logging.Logger;

public class AnimTimeParser
{
 /**
 * Test the parser
 */
 public static void main(String args[]) throws ParseException
 {
 // AnimTimeParser parser = new AnimTimeParser(System.in);
 StringReader reader;

 reader = new StringReader("1:30 + 5ms");
 AnimTimeParser parser = new AnimTimeParser(reader);
 TimeBase tc;

 tc = parser.Expr();
 System.err.println("AnimTimeParser eval to " + tc.evalTime());

 reader = new StringReader("19");
 parser.ReInit(reader);
 tc = parser.Expr();
 System.err.println("AnimTimeParser eval to " + tc.evalTime());
 }
}

PARSER_END(AnimTimeParser)

```

```

/**
 * Tokens
 */

SKIP : /* WHITE SPACE */
{
 " "
 | "\t"
 | "\n"
 | "\r"
 | "\f"
}

TOKEN :
{

```

```

< #LETTER: ["a"-"z", "A"-"Z"] >
|
< #DIGIT: ["0"-"9"] >
|
<
INTEGER: (<DIGIT>)+ >
|
< FLOAT: (["+", "-"])? (((<DIGIT>)* "." (<DIGIT>)+) | (((<DIGIT>)+) (["E", "e"] (["+", "-"])? (<DIGIT>)+)? >
|
< INDEFINITE: "indefinite" >
|
< MOUSE_OVER: "mouseover" >
|
< WHEN_NOT_ACTIVE: "whenNotActive" >
|
< UNITS: "ms" | "s" | "min" | "h" >
|
< IDENTIFIER: <LETTER> (<LETTER>|<DIGIT>|"_"|"-")* >

}

```

```

/**

```

```

 * Expression structure

```

```

 */

```

```

TimeBase Expr() :

```

```

{
 TimeBase term;
 ArrayList list = new ArrayList();
}
{
 (term = Sum()
 {
 list.add(term);
 }
)?
 (LOOKAHEAD(2) ";" term = Sum()
 {
 list.add(term);
 }
) *

```



(";")?

```
{
 switch (list.size())
 {
 case 0:
 return new TimeIndefinite();
 case 1:
 return (TimeBase)list.get(0);
 default:
 return new TimeCompound(list);
 }
}
```

TimeBase Sum() :

```
{
 Token t = null;
 TimeBase t1;
 TimeBase t2 = null;
}
{
 t1=Term()
 ((t="+" | t="-") t2 = Term())?
 {
 if (t2 == null) return t1;

 if (t.image.equals("-"))
 {
 return new TimeSum(t1, t2, false);
 }
 else
 {
 return new TimeSum(t1, t2, true);
 }
 }
}
```

TimeBase Term() :

```
{
 TimeBase base;
}
{
 base=IndefiniteTime()
 { return base; }
 | base=LiteralTime()
 { return base; }
```

```

| base=LookupTime()
 { return base; }
| base=EventTime()
 { return base; }
}

```

```

TimeIndefinite IndefiniteTime() :
{}
{
 <INDEFINITE>
 {
 return new TimeIndefinite();
 }
}

```

```

TimeDiscrete EventTime() :
{}
{
 (<MOUSE_OVER> | <WHEN_NOT_ACTIVE>)
 {
 //For now, map all events to the zero time
 return new TimeDiscrete(0);
 }
}

```

```

TimeDiscrete LiteralTime() :
{
 double t1, t2, t3 = Double.NaN, value;
 Token t;
}
{
 t1=Number()
 {
 value = t1;
 }
 (
 (":" t2=Number() (":" t3=Number())?
 {
 //Return clock time format (convert to seconds)
 if (Double.isNaN(t3))
 {
 value = t1 * 60 + t2;
 }
 else
 {
 value = t1 * 3600 + t2 * 60 + t3;
 }
 }
)
}

```

```

 }
)

|

(t=<UNITS>
{
 //Return units format (convert to seconds)
 if (t.image.equals("ms")) value = t1 / 1000;
 if (t.image.equals("min")) value = t1 * 60;
 if (t.image.equals("h")) value = t1 * 3600;
}
)
)?
{
 return new TimeDiscrete(value);
}
}

```

```

TimeLookup LookupTime() :
{
 double paramNum = 0.0;
 Token node, event;
}
{
 node=<IDENTIFIER> "." event=<IDENTIFIER> (paramNum=ParamList())?
 {
 return new TimeLookup(null, node.image, event.image, "" + paramNum);
 }
}

```

```

double ParamList() :
{
 double num;
}
{
 "(" num=Number() ")"

 {
 return num;
 }
}

```

```

double Number() :
{
 Token t;
}

```

```

{
 t=<FLOAT>
 {
 try {
 return Double.parseDouble(t.image);
 }
 catch (Exception e) {
 Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
 "Could not parse double '" + t.image + "'", e);
 }

 return 0.0;
 }
 | t=<INTEGER>
 {
 try {
 return Double.parseDouble(t.image);
 }
 catch (Exception e) {
 Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
 "Could not parse double '" + t.image + "'", e);
 }

 return 0.0;
 }
}

int Integer() :
{
 Token t;
}
{
 t=<INTEGER>
 {
 try {
 return Integer.parseInt(t.image);
 }
 catch (Exception e) {
 Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
 "Could not parse int '" + t.image + "'", e);
 }

 return
 }
 0;
}
}

```

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\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Line.java  
\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Rect.java  
\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Polygon.java  
\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Polyline.java  
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```
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FilterEffects.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FeSpotLight.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FePointLight.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FeLight.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FeDistantLight.java
*
```

/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Filter.java  
\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FillElement.java  
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\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackManager.java  
\* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackDouble.java  
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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Vertical.java
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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Arc.java
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# 1.246 font-droid 20200215-r3

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```
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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
"
```

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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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# Contributor: Carlo Landmeter <[clandmeter@alpinelinux.org](mailto:clandmeter@alpinelinux.org)>

# Maintainer: Kevin Daudt <[kdaudt@alpinelinux.org](mailto: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 rdft 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
"

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: 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 Kohonen neural network code for color optimization was written by Anthony Dekker.

Parts Copyright (c) 1995 by C. Blanc and C. Schlick

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: 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-gp517 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() {

gp517 build-wheel \

--wheel-dir .dist \

--output-fd 3 3>&1 >&2

}

package() {

gp517 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
"

Contributor: Dhruvin Gandhi <contact@dhruvin>
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
"

```

## 1.247 expat 2.6.4-r0

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# 1.248 sizeof-agent 1.0.1

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# 1.249 springdoc-openapi-starter-webmvc-api

## 2.6.0

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## 1.250 prometheus-metrics-tracer-common

### 1.2.1

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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 distributed 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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\* /prometheus-metrics-tracer-common-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-tracer-common/pom.xml

# 1.251 guava 33.3.1-jre

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# 1.252 classgraph 4.8.165

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 * Author: Johno Crawford (johno@sulake.com)
 *
 * Hosted at: https://github.com/classgraph/classgraph
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\* Author: R. Kempees

\*

\* With contributions from @cpierceworld (#414)

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\* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java

\* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/StandardReflectionDriver.java

\* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/ReflectionDriver.java

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jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java

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jar/nonapi/io/github/classgraph/classloaderhandler/WebSphereTraditionalClassLoaderHandler.java

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jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessByteBufferReader.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/ArraySlice.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/Slice.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/PathSlice.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/SequentialReader.java
*
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
* /classgraph-4-8-165-sources-2-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileChannelReader.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/FileSlice.java
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```

* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/TypeResolutions.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/Classfile.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleReaderProxy.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/PackageInfo.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodParameterInfo.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/Resource.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassMemberInfo.java
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 /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/LogNode.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/TypeParameter.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassGraphException.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassInfo.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationInfo.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/ProxyingInputStream.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONArray.java

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* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ReferenceTypeSignature.java
*
/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/types/ParseException.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONParser.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ScanResultObject.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleRef.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/Utils/FastPathResolver.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/PackageInfoList.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/Utils/VersionFinder.java
* /classgraph-4-8-165-sources-2-
jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
*
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* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClasspathElementDir.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClasspathElement.java
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* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSCClassLoaderHandler.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ModuleFinder.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/Utils/FileUtils.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleInfoList.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/ClassFields.java
*
/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassInfoList.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/Scanner.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/concurrency/InterruptChecker.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ObjectTypedValueWrapper.java
* /classgraph-4-8-165-sources-2-
jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/TypeArgument.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/Utils/StringUtils.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ArrayClassInfo.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ArrayTypeSignature.java
*
/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/BaseTypeSignature.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/scanspec/ScanSpec.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassGraph.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClasspathElementZip.java

```

- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodInfoList.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassGraphClassLoader.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassRefTypeSignature.java
- \*
- /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
- \* /classgraph-4-8-165-sources-2-
- jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/TypeSignature.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONObject.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/FieldInfoList.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONReference.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/PotentiallyUnmodifiableList.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/types/Parser.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationInfoList.java
- \* /classgraph-4-8-165-sources-2-
- jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java
- \* /classgraph-4-8-165-sources-2-
- jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java
- \*
- /classgraph-4-8-165-sources-2-
- jar/nonapi/io/github/classgraph/classloaderhandler/UnoOneJarClassLoaderHandler.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/recycler/Resettable.java
- \* /classgraph-4-8-165-sources-2-
- jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/types/TypeUtils.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationParameterValueList.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/GraphvizDotfileGenerator.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassTypeSignature.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/scanspec/AcceptReject.java
- \*
- /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/Utils/JarUtils.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/Utils/CollectionUtils.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodTypeSignature.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleInfo.java
- \* /classgraph-4-8-165-sources-2-
- jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationParameterValue.java
- \* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationEnumValue.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java
- \* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/recycler/Recycler.java
- \*

```

/classgraph-4-8-165-sources-2-jar/io/github/classgraph/HierarchicalTypeSignature.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModulePathInfo.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/TypeVariableSignature.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/InfoList.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/URLPathEncoder.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/HasName.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ScanResult.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java
* /classgraph-4-8-165-sources-2-
jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java
* /classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
*
/classgraph-4-8-165-sources-2-jar/io/github/classgraph/FieldInfo.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationClassRef.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodInfo.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/MappableInfoList.java
* /classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClasspathElementModule.java
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```

```

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*
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*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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\* This file is part of ClassGraph.

\*

\* Author: Michael J. Simons

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

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jar/nonapi/io/github/classgraph/classloaderhandler/SpringBootRestartClassLoaderHandler.java

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 *
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jar/nonapi/io/github/classgraph/classloaderhandler/QuarkusClassLoaderHandler.java

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 *
 * Author: Harith Elrifaie
 *
 * Hosted at: https://github.com/classgraph/classgraph
 *
 * --
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pkgname=perl-software-license
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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"

_buildddir="$srcdir/${_pkgreal}-${pkgver}"

prepare() {
 cd "$_buildddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_buildddir"
 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
}
```

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\*/

# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>

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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
}
```

```
md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e2417b586e543bfba12abce256b2023c8c4993eeb90
 flake8-copyright-0.2.0.tar.gz"
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```
Automatically generated by apkgbuild-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"

_buildddir="${srcdir}/${_pkgreal}-${pkgver}"

prepare() {
 cd "${_buildddir}"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "${_buildddir}"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 make && make test || return 1
}

package() {
 cd "${_buildddir}"
 make DESTDIR="${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="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.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="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-${pkgver}.tar.bz2"

```

```

"

_buildddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_buildddir"
 update_config_sub || return 1
}

build() {
 cd "$_buildddir"
 ./configure \
 --build=$CBUILD \
 --host=$CHOST \
 --prefix=/usr \
 || return 1
 make || return 1
}

package() {
 cd "$_buildddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"

```

## 1.255 prometheus-metrics-core 1.2.1

### 1.255.1 Available under license :

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<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

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.metrics.model.registry,io.prometheus.metrics.model.snapshots";version="1.2.1",io.prometheus.metrics.core.datapoints;uses:="io.prometheus.metrics.model.snapshots";version="1.2.1",io.prometheus.metrics.core.util;version="1.2.1",io.prometheus.metrics.core.exemplars;uses:="io.prometheus.metrics.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.prometheus.metrics.model.registry;version="[1.2,2)",io.prometheus.metrics.model.snapshots;version="[1.2,2)",io.prometheus.metrics.tracer.common;version="[1.2,2)",io.prometheus.metrics.tracer.initializer;version="[1.2,2)"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /prometheus-metrics-core-1-2-1-jar/META-INF/MANIFEST.MF

# 1.256 jackson-databind 2.17.3

## 1.256.1 Available under license :

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Version 2.0, January 2004

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# Jackson JSON processor

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## 1.257.1 Available under license :

Apache-2.0

# 1.258 libmd 1.1.0-r0

## 1.258.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Files:

\*

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include/sha2.h

src/sha2.c

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man/sha1.3

man/sha2.3

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- javaee\_web\_services\_1\_3.xsd

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- web-app\_3\_0.xsd
- web-common\_3\_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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-->

Found in path(s):

\* /j2objc-annotations-3-0-0-jar/META-INF/maven/com.google.j2objc/j2objc-annotations/pom.xml

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jar/io/micrometer/jakarta9/instrument/jms/JmsProcessObservationContext.java

\* /micrometer-jakarta9-1-13-13-sources-

jar/io/micrometer/jakarta9/instrument/jms/DefaultJmsProcessObservationConvention.java

\* /micrometer-jakarta9-1-13-13-sources-

```

jar/io/micrometer/jakarta9/instrument/jms/JmsProcessObservationConvention.java
*
/micrometer-jakarta9-1-13-13-sources-
jar/io/micrometer/jakarta9/instrument/jms/MessageConsumerInvocationHandler.java
* /micrometer-jakarta9-1-13-13-sources-
jar/io/micrometer/jakarta9/instrument/jms/MessageProducerInvocationHandler.java
* /micrometer-jakarta9-1-13-13-sources-
jar/io/micrometer/jakarta9/instrument/jms/DefaultJmsPublishObservationConvention.java
* /micrometer-jakarta9-1-13-13-sources-jar/io/micrometer/jakarta9/instrument/jms/JmsInstrumentation.java
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* /micrometer-jakarta9-1-13-13-sources-jar/io/micrometer/jakarta9/instrument/jms/SessionInvocationHandler.java
* /micrometer-jakarta9-1-13-13-sources-
jar/io/micrometer/jakarta9/instrument/jms/JmsObservationDocumentation.java
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```

* /micrometer-jakarta9-1-13-13-sources-
jar/io/micrometer/jakarta9/instrument/jms/JmsPublishObservationContext.java

```

## 1.280 rich 13.7.1

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```
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* /asm-9-7-1-sources-jar/org/objectweb/asm/TypePath.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassTooLargeException.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/ConstantDynamic.java
*
/asm-9-7-1-sources-jar/org/objectweb/asm/Attribute.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/TypeReference.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassVisitor.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/MethodTooLargeException.java
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* /asm-9-7-1-sources-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/Label.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/Type.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/ModuleWriter.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/Constants.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/FieldWriter.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/RecordComponentVisitor.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/ModuleVisitor.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/SymbolTable.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/Symbol.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/Frame.java
*
/asm-9-7-1-sources-jar/org/objectweb/asm/ByteVector.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/Context.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/RecordComponentWriter.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/MethodWriter.java
* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassWriter.java
```

\* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassReader.java  
\* /asm-9-7-1-sources-jar/org/objectweb/asm/signature/SignatureReader.java  
\* /asm-9-7-1-sources-jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /asm-9-7-1-sources-jar/org/objectweb/asm/Edge.java  
\* /asm-9-7-1-sources-jar/org/objectweb/asm/Handler.java  
\* /asm-9-7-1-sources-jar/org/objectweb/asm/Opcodes.java  
\* /asm-9-7-1-sources-jar/org/objectweb/asm/FieldVisitor.java

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#

#
Ncurses 6.5 is at
https://invisible-island.net/archives/ncurses/
https://invisible-mirror.net/archives/ncurses/
https://ftp.gnu.org/gnu/ncurses/
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Patches for ncurses 6.5 can be found at
https://invisible-island.net/archives/ncurses/6.5
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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++/cursespad.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/ncurset.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++;-*-
/*****
- * 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 "curses.h"

-MODULE_ID("$Id: curses.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: curses.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 <curses.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 1919-2020,2021 Thomas E. Dickey
*
+ * Copyright 1919-2021,2024 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://wez.furlong.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 @@
/*****
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@@ -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/ncurset.spec
--- ncurses-6.5-20240928+/package/ncurset.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurset.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncurset6
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 @@
/*****
-

```

```

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@@ -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 @@
/*****
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@@ -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 *
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@@@ -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 @@
/*****
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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 @@
/*****
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* *
* 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 $
*/

#ifdef __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 @@
/*****
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* 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 *
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*
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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 @@

/\*\*\*\*\*

-

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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 *
+ * 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 1919-2022,2023 Thomas E. Dickey *
+ * Copyright 1919-2023,2024 Thomas E. Dickey *
* Copyright 2009-2016,2017 Free Software Foundation, Inc. *
*
*
*
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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 *
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+ *
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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 1919-2022,2023 Thomas E. Dickey *
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* *
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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 @@

/\*\*\*\*\*

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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 @@

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@@ -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 @@
/*
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*
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@@ -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 @@

```

```

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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 @@
/*****
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2020-2022,2024 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: 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 @@

/\*\*\*\*\*

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@@ -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 @@
/*****
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* 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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 * *
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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 *
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Thomas E. Dickey *
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* *
* 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 @@
/*****
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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;
#ifdef 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 @@
/*****
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*
* 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 @@
/*****
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*
*
*
* 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 @@
@@ -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 @@
/*****
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 *
 *
 * 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 *
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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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*
* 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 @@
/*****

```

```

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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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@@ -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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@@ -27,7 +27,7 @@

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/\*

- \* \$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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@@ -27,7 +27,7 @@

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/\*

- \* \$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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@@ -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 @@

```

```

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@@ -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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* *
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@@ -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 @@
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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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@@ -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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* 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 *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 @@@
wclrtoobot(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 = wwidth(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 = wwidth(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;
#ifdef 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

# 1.289 activation-api 1.2.0

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```
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```

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Alex Dowad  
Alex Suykov  
Alexander Monakov  
Andre McCurdy  
Andrew Kelley  
Anthony G. Basile  
Aric Belsito  
Arvid Picciani  
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- jakartaee\_10.xsd

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- jakarta\_web-services\_client\_2\_0.xsd
- jsp\_3\_0.xsd
- jsp\_3\_1.xsd
- web-app\_5\_0.xsd
- web-app\_6\_0.xsd
- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd
- web-fragment\_5\_0.xsd
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Eclipse

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For the following XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd

- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd



- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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- javaee\_web\_services\_1\_3.xsd
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- 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
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- 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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- jakartaee\_10.xsd
- jakarta\_web-services\_2\_0.xsd
- jakarta\_web-services\_client\_2\_0.xsd
- jsp\_3\_0.xsd
- jsp\_3\_1.xsd
- web-app\_5\_0.xsd
- web-app\_6\_0.xsd
- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd
- web-fragment\_5\_0.xsd
- web-fragment\_6\_0.xsd
- 
- web-jsptaglibrary\_3\_0.xsd
- web-jsptaglibrary\_3\_1.xsd

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## 1.293 simpleclient-common 0.16.0

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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 Simpleclient.

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.prometheus.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

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\* /simpleclient-common-0-16-0-2-jar/META-INF/MANIFEST.MF

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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

Found in path(s):

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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  
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CONFIDENTIAL. NONE means that the application does not require any  
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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/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/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/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.org/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,jakarta.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",jakarta.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.servlet.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):

- \* /jakarta-servlet-api-6-0-0-jar/META-INF/MANIFEST.MF

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## 1.299.1 Available under license :

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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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data structure

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## 1.301 distlib 0.3.9

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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                 |
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| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
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| 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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=====

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=====

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.

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## 1.303 supervisor 4.2.5

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## 1.304 bash 5.2.37-r0

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```

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## 1.305 jline 3.22.0

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*
* /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/TelnetIO.java
* /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  
\* /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/Connection.java  
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\* /jline-3-22-0-sources-8-jar/org/jline/Utils/ExecHelper.java  
\* /jline-3-22-0-sources-8-jar/org/jline/terminal/Attributes.java  
\* /jline-3-22-0-sources-8-jar/org/jline/Utils/ShutdownHooks.java  
\* /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  
\*  
/jline-3-22-0-sources-8-jar/org/jline/reader/Macro.java  
\* /jline-3-22-0-sources-8-jar/org/jline/terminal/Cursor.java  
\* /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  
\* /jline-3-22-0-sources-8-jar/org/jline/Utils/Levenshtein.java

\* /jline-3-22-0-sources-8-jar/org/jline/keymap/KeyMap.java  
\* /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  
\* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/history/package-info.java  
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\* /jline-3-22-0-sources-8-jar/org/jline/console/Printer.java  
\* /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  
\* /jline-3-22-0-sources-8-jar/org/jline/builtins/SyntaxHighlighter.java  
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\* /jline-3-22-0-sources-8-jar/org/jline/reader/EOFError.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  
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key\_f18, kf18, F8  
key\_f19, kf19, F9  
key\_f2, kf2, k2  
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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  
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key\_f31, kf31, FL  
key\_f32, kf32, FM  
key\_f33, kf33, FN

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key\_f37, kf37, FR  
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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  
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key\_f51, kf51, Ff  
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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, kI  
key\_ll, kll, kH  
key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5

key\_npage, knp, kN  
 key\_open, kopn, %6  
 key\_options, kopt, %7  
 key\_ppage, kpp, kP  
 key\_previous, kprv, %8  
 key\_print, kpri, %9  
 key\_redo, krdo, %0  
 key\_reference, kref, &1  
 key\_refresh, krfr, &2  
 key\_replace, krpl, &3  
 key\_restart, krst, &4  
 key\_resume, kres, &5  
 key\_right, kcuf1, kr  
 key\_save, ksav, &6  
 key\_sbeg, kBEG, &9  
 key\_scancel, kCAN, &0  
 key\_scommand, kCMD, \*1  
 key\_scopy, kCPY, \*2  
 key\_screate, kCRT, \*3  
 key\_sdc, kDC, \*4  
 key\_sdl, kDL, \*5  
 key\_select, kslt, \*6  
 key\_send, kEND, \*7  
 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\_sresume, 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, mhp\_a, ZY  
micro\_down, mcud1, ZZ  
micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
micro\_row\_address, mvpa, Zc  
micro\_up, mcuu1, Zd  
newline, nel, nw  
order\_of\_pins, porder, Ze  
orig\_colors, oc, oc  
orig\_pair, op, op  
pad\_char, pad, pc  
parm\_dch, dch, DC  
parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO  
parm\_down\_micro,  
mcud, Zf  
parm\_ich, ich, IC  
parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
parm\_right\_cursor, cuf, RI  
parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR  
parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mcuu, Zi  
pkey\_key, pfkey, pk  
pkey\_local, pfloc, pl



pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
print\_screen, mc0, ps  
prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
pulse, pulse, PU  
quick\_dial, qdial, QD  
remove\_clock, rmclk, RC  
repeat\_char, rep, rp  
req\_for\_input, rfi, RF  
reset\_1string, rs1, r1  
reset\_2string, rs2, r2  
reset\_3string, rs3, r3  
reset\_file, rf, rf  
restore\_cursor, rc, rc  
row\_address, vpa, cv  
save\_cursor, sc, sc  
scroll\_forward, ind, sf  
scroll\_reverse, ri, sr  
select\_char\_set, scs, Zj  
set\_attributes, sgr, sa  
set\_background, setb, Sb  
set\_bottom\_margin, smgb, Zk  
set\_bottom\_margin\_parm, smgbp, Zl  
set\_clock, sclk, SC  
set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
set\_left\_margin, smgl, ML  
set\_left\_margin\_parm, smglp, Zm  
set\_right\_margin,  
smgr, MR  
set\_right\_margin\_parm, smgrp, Zn  
set\_tab, hts, st  
set\_top\_margin, smgt, Zo  
set\_top\_margin\_parm, smgtp, Zp  
set\_window, wind, wi  
start\_bit\_image, sbim, Zq  
start\_char\_set\_def, scsd, Zr  
stop\_bit\_image, rbim, Zs  
stop\_char\_set\_def, rcsd, Zt  
subscript\_characters, subcs, Zu  
superscript\_characters, supcs, Zv  
tab, ht, ta  
these\_cause\_cr, docr, Zw  
to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc

up\_half\_line, hu, hu  
user0, u0, u0  
user1, u1, u1  
user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
user5, u5, u5  
user6, u6, u6  
user7, u7, u7  
user8, u8, u8  
user9, u9, u9  
wait\_tone, wait, WA  
xoff\_character, xoffc, XF  
xon\_character, xonc, XN  
zero\_motion, zerom, Zx  
alt\_scancode\_esc, scesa, S8  
bit\_image\_carriage\_return, bicr, Yv  
bit\_image\_newline, binel, Zz  
bit\_image\_repeat, birep, Xy  
char\_set\_names, csnm, Zy  
code\_set\_init, csin, ci  
color\_names, colorm, Yw  
define\_bit\_image\_region, defbi, Yx  
device\_type, devt, dv  
display\_pc\_char, dispch, 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, rmisc, 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, ehhlml, Xh  
enter\_left\_hl\_mode, elhlml, Xl  
enter\_low\_hl\_mode, elohlm, Xo  
enter\_right\_hl\_mode, erhlml, Xr  
enter\_top\_hl\_mode, ethlm, Xt  
enter\_vertical\_hl\_mode, evhlml, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

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\* /jline-3-22-0-sources-8-jar/org/jline/utills/capabilities.txt

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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  
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darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a  
darkolivegreen3a  
palegreen3a  
darkseagreen3  
darkslategray3  
skyblue1  
chartreuse1  
lightgreen  
lightgreena  
palegreen1

aquamarine1a  
darkslategray1  
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deeppink4b  
mediumvioletred  
magenta3  
darkvioleta  
purpleb  
darkorange3  
indianred  
hotpink3  
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mediumorchid  
mediumpurple2  
darkgoldenrod  
lightsalmon3  
rosybrown  
grey63  
mediumpurple2a  
mediumpurple1  
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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-3-22-0-sources-8-jar/org/jline/utils/colors.txt

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Found in path(s):

\* /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/ScreenTerminal.java

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```

* /jline-3-22-0-sources-8-jar/org/jline/builtins/Options.java

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```

/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/reader/impl/KillRing.java
* /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/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/Style.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/NfaMatcher.java
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#
class = org.jline.terminal.impl.exec.ExecTerminalProvider

```

Found in path(s):

```

* /jline-3-22-0-sources-8-jar/META-INF/services/org/jline/terminal/provider/exec
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#
class = org.jline.terminal.impl.jansi.JansiTerminalProvider
```

Found in path(s):

```
* /jline-3-22-0-sources-8-jar/META-INF/services/org/jline/terminal/provider/jansi
```

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Found in path(s):

```
* /jline-3-22-0-sources-8-jar/org/jline/style/NopStyleSource.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /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
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleBundleInvocationHandler.java
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```

* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/ConsoleOptionGetter.java
* /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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-->

Found in path(s):

\* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml  
\* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml  
\* /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  
\* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml  
\* /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  
\* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-style/pom.xml

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\* The classes in this package make JDBC easier to use and

\* reduce the likelihood of common errors. In particular, they:

\* <ul>

\* <li>Simplify error handling, avoiding the need for try/catch/finally  
blocks in application code.

\* <li>Present exceptions to application code in a generic hierarchy of  
unchecked exceptions, enabling applications to catch data access  
exceptions without being dependent on JDBC, and to ignore fatal  
exceptions there is no value in catching.

\* <li>Allow the implementation of error handling to be modified  
to target different RDBMSes without introducing proprietary  
dependencies into application code.

\* </ul>

\*

\* <p>This package and related packages are discussed in Chapter 9 of

\* <a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and  
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\* by Rod Johnson (Wrox, 2002).

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- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java

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- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlInOutParameter.java

\*

/spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/SqlCall.java

- \* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java

- \* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java

- \* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java

- \* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java

\*

/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/InvalidResultSetAccessException.java

- \* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/MappingSqlQuery.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java



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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/SqlOperation.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/SqlUpdate.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/LobRetrievalFailureException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlResultSet.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
*
/spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/PreparedStatementCallback.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/CallableStatementCreator.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/SqlQuery.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/BatchSqlUpdate.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
*

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/spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/BadSqlGrammarException.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ResultSetExtractor.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlOutParameter.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java  
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\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/lob/PassThroughClob.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/support/incrementer/MariaDBSequenceMaxValueIncrementer.java  
\*  
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/SqlFunction.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java  
\*  
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/support/incrementer/SqlServerSequenceMaxValueIncrementer.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java

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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/CallableStatementCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ColumnMapRowMapper.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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jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/SqlBinaryValue.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/StoredProcedure.java

\*

/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/RdbmsOperation.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/JdbcTemplate.java

\* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLErrorCodesFactory.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java

\*

/spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/SqlLobValue.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java

\* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/JdbcUtils.java

\* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryRuntimeHints.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java  
\*  
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/SqlCharacterValue.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java  
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/\*\*

\* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.

\* Will not need to do anything if using PreparedStatement's standard methods,

\* but might be necessary to free database resources if using proprietary means.

\* <p><b>NOTE</b></p>: Needs to be invoked after the involved

PreparedStatement's 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-6-1-19-sources-jar/org/springframework/jdbc/support/JdbcTransactionManager.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java

\*

/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/JdbcAccessor.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java

\* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/support/incrementer/MySQLIdentityColumnMaxValueIncrementer.java

\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ShardingKeyDataSourceAdapter.java

\* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java

```

* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SqlArrayValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SqlValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/DataClassRowMapper.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLExceptionCodeSQLExceptionTranslator.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/JdbcClient.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ShardingKeyProvider.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/SimplePropertySqlParameterSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowCallbackHandler.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/SQLWarningException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/DefaultJdbcClient.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java

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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowMapper.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SimplePropertyRowMapper.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
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- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/lob/LobHandler.java

- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java

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- \* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SingleColumnRowMapper.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-6-1-19-sources-jar/org/springframework/jdbc/support/SQLExceptionTranslator.java`

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\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java  
\*  
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/GenericStoredProcedure.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java  
\* /spring-jdbc-6-1-19-sources-  
jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java  
\*  
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java  
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\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlProvider.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java  
\* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/GeneratedKeyHolder.java

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*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/KeyHolder.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlParameter.java
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## 1.311 idna 3.4

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# 1.312 hibernate 6.5.3.Final

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```
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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.
 *
 *
 * 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.
 * 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.
 *
 *
 *
 * <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

Found in path(s):

\* /hibernate-core-6-5-3-final-sources-jar/META-INF/services/jakarta.persistence.spi.PersistenceProvider

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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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/\*

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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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```
<!--
```

```
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```

```
~
```

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```

```
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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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```
/*
```

```
* Hibernate, Relational Persistence for Idiomatic Java
```

```
*
```

```
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```

```
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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:
```

```
 * 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}.
```

```
 * 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.
```

```
 *
```

```
*
```

```
 * 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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Found in path(s):

\* /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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\* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/NullnessUtil.java

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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 not entail locking,
 * and there is not 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.
 *
 * 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 completed 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 *not* 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
- \* *optional* 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 *not* 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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 */
```

Found in path(s):

\* /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
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- 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
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 \* /hibernate-core-6-5-3-final-sources-  
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 \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/StandardBooleanConverter.java  
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 \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/ResourceLocator.java  
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- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/internal/MutationStatementPreparerImpl.java
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 */
// It supports a proprietary operator
```

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// "5.3 in upgrading. It will be removed in a later version."
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 */
/**
 * Subclass used to simply instantiation of singular attributes representing an entity's
 * version.
 */
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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

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>>.

\*/

/\*\*

\* In {@link jakarta.persistence.InheritanceType#SINGLE\_TABLE single table}

\* inheritance, subclasses share a table with the root class by definition. But

\* for {@link 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

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):

- \* /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
  - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/CalendarDateJavaType.java
  - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cache/spi/entry/CollectionCacheEntry.java
  - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tool/schema/internal/SchemaTruncatorImpl.java
  - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/TimeZoneStorage.java
  - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/relational/Exportable.java
  - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/event/spi/PostCommitDeleteEventListener.java
  - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/SchemaAutoTooling.java
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    - /hibernate-core-6-5-3-final-sources-jar/org/hibernate/resource/transaction/backend/jta/internal/JtaTransactionCoordinatorImpl.java
    - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/registry/classloading/spi/ClassLoadingException.java
    - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/Table.java
    - \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/internal/InFlightMetadataCollectorImpl.java

- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/spi/SizeSource.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/package-info.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/DB2StructJdbcType.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/spi/CascadeStyleSource.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/resource/transaction/backend/jdbc/internal/package-info.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/ShortPrimitiveArrayJavaType.java
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- /hibernate-core-6-5-3-final-sources-jar/org/hibernate/bytecode/enhance/spi/EnhancementInfo.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/sequence/H2V2SequenceSupport.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/context/internal/ManagedSessionContext.java
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- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tuple/TimestampGenerators.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/JdbcType.java
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- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/internal/util/CacheModeHelper.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/NamedQuery.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/SharedSessionBuilder.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/sequence/package-info.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/pagination/DerbyLimitHandler.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/JoinFormula.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/HANAColumnStoreDialect.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/spi/JavaTypeRegistry.java
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- /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/SerializationHelper.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/property/access/spi/PropertyAccessBuildingException.java
- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/BasicCollectionPersister.java
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- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/generator/BeforeExecutionGenerator.java
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- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/aggregate/AggregateSupportImpl.java
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* /hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/usertype/StaticUserTypeSupport.java
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- \* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/results/graph/instantiation/internal/BeanInjector.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/results/graph/basic/CoercingResultAssembler.java
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Found in path(s):

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# 1.313 packaging 24.1

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former

contains code derived from the library, whereas the latter must be combined with the library in order to run.

## @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

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

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

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either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

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

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@item

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@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must

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

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or



table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections

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

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

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

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

@item

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

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

@item

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

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

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

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

Otherwise,

if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

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

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@item

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

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at

least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

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

@item

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

@end enumerate

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

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@item

Accompany the combined library with a copy of the same work based on the Library,  
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@item

Give prominent notice with the combined library of the fact

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end

smallexample

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'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

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@item

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@item

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source code, which must be distributed under the terms of Sections  
1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with a written offer, valid for at least three  
years, to give any third party, for a charge no more than your  
cost of physically performing source distribution, a complete  
machine-readable copy of the corresponding source code, to be  
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Accompany it with the information you received as to the offer  
to distribute corresponding source code. (This alternative is  
allowed only for noncommercial  
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The source code for a work means the preferred form of the work for  
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code means all the source code for all modules it contains, plus any  
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special exception, the source code distributed need not include  
anything that is normally distributed (in either source or binary  
form) with the major components (compiler, kernel, and so on) of the  
operating system on which the executable runs, unless that component  
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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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

```
@smallexample
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and a brief idea of what it does.}
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```

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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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necessary. Here is a sample; alter the names:

@example

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'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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The

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# 1.315 xz 5.6.3-r0

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```
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```

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# 1.316 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
"
buildid="$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"

```

## 1.317 simpleclient\_tracer\_otel 0.16.0

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Found in path(s):

\* /simpleclient-tracer-otel-0-16-0-sources-jar/META-INF/maven/io.prometheus/simpleclient\_tracer\_otel/pom.xml

## 1.318 jackson-dataformat-toml 2.17.3

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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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## 1.319 apache-servicemix-bundles-kafka-clients 3.8.1\_1

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streams/src/main/java/org/apache/kafka/streams/state/internals/Murmur3.java

# 1.320 j2objc-annotations 2.8

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 */
```

Found in path(s):

```
*/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Weak.java
*/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/AutoreleasePool.java
```

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 */
```

Found in path(s):

```
*/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

# 1.321 springdoc-openapi-starter-webmvc-ui

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## 1.322 spring-aop 6.1.19

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*/spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
*/spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
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* /spring-aop-6-1-19-sources-jar/org/springframework/aop/BeforeAdvice.java
*
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/AfterAdvice.java
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\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java  
\*  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java

- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/ExpressionPointcut.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
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- \* /spring-aop-6-1-19-sources-jar/org/aopalliance/intercept/ConstructorInterceptor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/EmptyTargetSource.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/RootClassFilter.java
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- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/SingletonTargetSource.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java

- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/MethodMatcher.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/adapters/ThrowsAdviceInterceptor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
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- /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
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- jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
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- /spring-aop-6-1-19-sources-jar/org/springframework/aop/ClassFilter.java
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- jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/ClassFilters.java
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- \* /spring-aop-6-1-19-sources-jar/org/aopalliance/intercept/MethodInvocation.java
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- /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
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- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/AopProxyFactory.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
- \*
- /spring-aop-6-1-19-sources-jar/org/springframework/aop/Pointcut.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/PointcutComponentDefinition.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/dynamic/Refreshable.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/advisor/UnknownAdviceTypeException.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/PointcutAdvisor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/IntroductionAdvisor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/scope/DefaultScopedObject.java
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- /spring-aop-6-1-19-sources-jar/org/springframework/aop/scope/ScopedObject.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java



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- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/AopContext.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
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- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java

- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java

- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/AdvisorEntry.java

- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java

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- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/AopNamespaceHandler.java

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* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceAdapter.java
*
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
* /spring-aop-6-1-19-sources-jar/org/aopalliance/intercept/Joinpoint.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
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* /spring-aop-6-1-19-sources-

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jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /spring-aop-6-1-19-sources-
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /spring-aop-6-1-19-sources-
jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
*
/spring-aop-6-1-19-sources-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/MethodBeforeAdvice.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/AopNamespaceUtils.java
* /spring-aop-6-1-19-sources-jar/org/aopalliance/intercept/ConstructorInvocation.java
* /spring-aop-6-1-19-sources-jar/org/aopalliance/aop/AspectException.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/DynamicMethodMatcher.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/TrueClassFilter.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/TrueMethodMatcher.java
*
/spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/IntroductionInfoSupport.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/ProxyProcessorSupport.java
* /spring-aop-6-1-19-sources-jar/org/aopalliance/intercept/MethodInterceptor.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/AopConfigUtils.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/TruePointcut.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/StaticMethodMatcher.java
*
/spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
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\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java  
\*  
/spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/scope/ScopedProxyUtils.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/ProxyFactory.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java  
\*  
/spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/AopProxy.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/AspectJAopUtils.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java  
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- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/AopUtils.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
- \*
  - /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorBeanRegistrationAotProcessor.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/support/ControlFlowPointcut.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/CoroutinesUtils.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/AdvisedSupport.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
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- \* /spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
- \*

/spring-aop-6-1-19-sources-jar/org/springframework/aop/framework/Advised.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java  
\* /spring-aop-6-1-19-sources-jar/org/springframework/aop/scope/ScopedProxyBeanRegistrationAotProcessor.java

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Objenesis

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The packages:

com.hazelcast.internal.util.collection  
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.internal.util.QuickMath  
com.hazelcast.client.impl.protocol.util.UnsafeBuffer  
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project  
(<https://github.com/real-logic/Agrona>).

The class com.hazelcast.internal.util.HashUtil contains code originating  
from the Koloboke project (<https://github.com/OpenHFT/Koloboke>).

The class classloading.ThreadLocalLeakTestUtils contains code originating  
from the Tomcat  
project (<https://github.com/apache/tomcat>).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating  
from the Akka project (<https://github.com/akka/akka/>).

The package com.hazelcast.internal.json contains code originating  
from minimal-json project (<https://github.com/ralfstx/minimal-json>).

The class com.hazelcast.instance.impl.MobyNames contains code originating  
from The Moby Project (<https://github.com/moby/moby>).

The class com.hazelcast.internal.util.graph.BronKerboschCliqueFinder contains code  
originating from The JGraphT Project (<https://github.com/jgrapht/jgrapht>).

The packages:  
com.hazelcast.sql  
com.hazelcast.jet.sql

contain code originating from the Apache Calcite (<https://github.com/apache/calcite>)

The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains  
code derived from the Apache Flink project.

The class com.hazelcast.internal.util.ConcurrentReferenceHashMap contains code written by Doug Lea  
and updated within the WildFly project  
(<https://github.com/wildfly/wildfly>).

The classes:  
com.hazelcast.cp.internal.raft.impl.state.FollowerState



com.hazelcast.cp.internal.raft.impl.state.FollowerStateTest  
com.hazelcast.cp.internal.raft.impl.SlowFollowerBackoffTest

contain code originating from the MicroRaft project (<https://github.com/MicroRaft/MicroRaft>)

# 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](mailto:tatu.saloranta@iki.fi)), and has  
been in development since 2007.  
It is currently developed by a community of developers.

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from the source code management (SCM) system project uses.

Jackson  
is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has  
been in development since 2007.  
It is currently developed by a community of developers, as well as supported  
commercially by FasterXML.com.

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# 1.326 wget 1.25.0-r1

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## 1.328 libfontenc 1.1.8-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.

All

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| Release        | Derived<br>from | Year      | Owner      | GPL-<br>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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\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/TypedValue.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/MethodExecutor.java

\*

/spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/SpelMessage.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/FunctionReference.java

\* /spring-expression-6-1-19-sources-

jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/InlineMap.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/ConstructorExecutor.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/FormatHelper.java

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jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java

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\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/Expression.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Assign.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorBetween.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/common/CompositeStringExpression.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/BeanResolver.java

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\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/InlineList.java

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jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java



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/spring-expression-6-1-19-sources-jar/org/springframework/expression/OperatorOverloader.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpDec.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/ConstructorResolver.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/MethodReference.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/ConstructorReference.java
*
/spring-expression-6-1-19-sources-jar/org/springframework/expression/ParserContext.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Indexer.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Selection.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/CodeFlow.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpInc.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/MethodResolver.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/SpelEvaluationException.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/standard/Token.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/VariableReference.java
*
/spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/common/LiteralExpression.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/TypeCode.java
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\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/CompiledExpression.java  
\*  
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jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java  
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\*

\*/spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/StringLiteral.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpDivide.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Ternary.java

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\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Elvis.java

\*

/spring-expression-6-1-19-sources-jar/org/springframework/expression/TypeLocator.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpMinus.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpPlus.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorMatches.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpMultiply.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ExpressionState.java

\* /spring-expression-6-1-19-sources-

jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java

\* /spring-expression-6-1-19-sources-

jar/org/springframework/expression/spel/support/StandardTypeComparator.java

\* /spring-expression-6-1-19-sources-

jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java

\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Literal.java

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\*

/spring-expression-6-1-19-sources-jar/org/springframework/expression/PropertyAccessor.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorNot.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/LongLiteral.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpAnd.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/IntLiteral.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/BooleanLiteral.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpEQ.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/RealLiteral.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/FloatLiteral.java  
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\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorPower.java  
\* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpGE.java  
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