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## 1.2.1 Available under license :

### 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

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

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

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## 1.15 guava 25.0

### 1.15.1 Available under license :

Doug Lea

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## 1.16 thrift 0.10.0

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compiler/cpp/src/generate/t\_java\_generator.cc  
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compiler/cpp/src/generate/t\_php\_generator.cc  
compiler/cpp/src/generate/t\_py\_generator.cc  
compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
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lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
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lib/st/thrift.st  
test/OptionalRequiredTest.cpp  
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# 1.17 activemq 5.15.4

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-- activemq-xmpp

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-- activemq-web

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=====
== For the behaviour.js library           ==
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== For the style.css library           ==
== For the common.js library          ==
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== For the MochiKit library
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== For the standardista-table-sorting.js library           ==
== For the css.js library                                   ==
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Initial authors:

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2001-12-12

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=====  
== For the backport-util-concurrent library ==

=====

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-transitional.dtd">
```

```
<html><head><title>Creative Commons Public Domain</title>
```

```
<body>
```

```
<p align="center"><em>Copyright-Only Dedication (based on United States law) or Public Domain  
Certification</em></p>
```

```
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```

```
</div>  
</div>  
</body></html>
```

=====

# 1.18 adduser 3.116ubuntu1

## 1.18.1 Available under license :

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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# 1.19 audit 2.8.2-1ubuntu1

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Version 2.1, February 1999

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```

```
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## 1.22 coreutils 8.28-1ubuntu1

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This package is maintained by Michael Stone <mstone@debian.org> and built from sources obtained from:  
<ftp://ftp.gnu.org/gnu/coreutils/coreutils-8.24.tar.xz>

This debian package was first created by Michael Stone <mstone@debian.org>.

from coreutils 4.5.1.

Changes:

- \* added Debian GNU/Linux package maintenance system files
- \* at times, bug fixes awaiting inclusion in the upstream source

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lib/fts.c

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lib/rand-isaac.[ch]

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lib/inet\_ntop.c

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doc/coreutils.texi (The GNU Coreutils Manual)

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LIBGCRYPT Werner Koch 2001-06-07

Assigns past and future changes.

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Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10

Disclaims changes.

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Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11

Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17

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mroth@nessie.de

Wrote

cipher/des.c.

Changes and bug fixes all over the place.

GNUPG Niklas Hernaes 1998-09-18

Disclaims changes.

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Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25

Assigns past and future changes. (g10/compress.c, g10/encr-data.c,  
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)

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ANY g10 Code GmbH 2001-06-07

Assignment for future changes terminated on 2012-12-04.

Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31

Assigns past and future changes.

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LIBGCRYPT Simon Josefsson 2002-10-25

Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,  
CTS/MAC flags, self test improvements)

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LIBGCRYPT Moritz Schulte 2003-04-17

Assigns past and future changes.

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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22

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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

Assigns

past and future changes. (new: src/libcrypt.pc.in,  
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,  
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,  
tests/register.c, tests/ac.c, tests/basic.c, tests/texp.c,  
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07

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(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20

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(mpi/amd64, tests/mpitests.c)

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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

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(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Miller 2012-02-15

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(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26  
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2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
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Upstream-Name: libunistring

Upstream-Contact: Bruno Haible <bruno@clisp.org>

Source: <http://ftp.gnu.org/gnu/libunistring/>

Files: \*

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## 1.27 Isb 9.20170808ubuntu1

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92K sysvinit-2.86.tar.gz  
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The of the start-stop-daemon:

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
- \* public domain.

## 1.30 zlib 1.2.11.dfsg-0ubuntu2

### 1.30.1 Available under license :

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Files-Excluded:

contrib/ada  
contrib/amd64  
contrib/asm686  
contrib/blast  
contrib/delphi  
contrib/dotzlib  
contrib/gcc\_gvmat64  
contrib/infback9  
contrib/inflate86  
contrib/iostream  
contrib/iostream2  
contrib/iostream3  
contrib/masmx64  
contrib/masmx86  
contrib/pascal  
contrib/puff  
contrib/testzlib  
contrib/untgz  
contrib/vstudio  
doc/rfc\*

This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at <http://www.gzip.org/zlib/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the



people who reported problems and suggested various improvements in zlib;  
they are too numerous to  
cite here.

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Jean-loup Gailly     Mark Adler  
jloup@gzip.org  
madler@alumni.caltech.edu

## 1.31 zstd 1.3.3+dfsg-2ubuntu1

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Upstream-Name: Zstd

Source: <https://github.com/facebook/zstd>

Files-Excluded: appveyor.yml

circle.yml

build/\*

programs/windres/\*

.travis.yml

.buckversion

.buckconfig

Files: \*

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Files: zlibWrapper/gz\*.c  
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## 1.32 gnutls 3.5.18-1ubuntu1

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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from <ftp://ftp.gnutls.org/gcrypt/gnutls/>

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Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo \*martin [at] martin.st\*

## DTLS-SRTP

support.

Alessandro Ghedini [\\*alessandro \[at\] ghedini.me\\*](mailto:alessandro@ghedini.me)

TLS Fallback SCSV support (RFC7507).

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lib/extras/randomart.\*

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lib/system/vasprintf.c

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lib/extras/hex.\*

Author: Rusty Russell <rusty@rustcorp.com.au>

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tests/pkcs11/pkcs11-mock.\*

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Dumbster SMTP test server

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## 1.37 logback-core 1.2.3

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

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



```
<head>
  <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
  <title>License</title>
  <link rel="stylesheet" type="text/css" href="css/common.css" />
  <link rel="stylesheet" type="text/css" href="css/screen.css" media="screen" />
  <link rel="stylesheet" type="text/css" href="css/_print.css" media="print" />
```

```
</head>
```

```
<body>
```

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

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

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

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

```
  </div>
```

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

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

```
  </div>
```

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

```
    <div class="section">
```

```
      <h2>Logback License</h2>
```

```
    </div>
```

```
  <p>As of release 0.9.18,  
logback source code and binaries are  
dual-licensed under the EPL v1.0 and the LGPL 2.1, or more  
formally:</p>
```

```
  <p class="source">Logback: the reliable, generic, fast and flexible logging framework.  
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```

```
  <!-- ===== -->
```

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  <p>The EPL/LGPL dual-license serves several purposes. The LGPL
```

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

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## 1.40 also 1.1.3-5ubuntu0.2

## 1.41 apt 1.6.11

## 1.42 lz4 0.0~r131-2ubuntu3

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## 1.43 bzip2 1.0.6-8.1

## 1.44 expat 2.2.5-3ubuntu0.1

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## 1.45 libbsd 0.8.7-1

# 1.46 zlib 1.2.8

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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## 1.47 snake-yaml 1.17

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## 1.48 reflections 0.9.11

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INF/maven/org.reflections/reflections/pom.xml

# 1.49 okio 1.13.0

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```
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* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSource.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSink.java
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* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Util.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Buffer.java
```

```
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Segment.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSource.java
*
/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSource.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Timeout.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Sink.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentPool.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSink.java
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* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Okio.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/AsyncTimeout.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSource.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/InflaterSource.java
*
/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSink.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Source.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSink.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSink.java
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSource.java
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## 1.50 resourcelocator 1.0.1

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

## 1.51 classmate 1.3.4

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

Other developers who have contributed code are:

\* Brian Langel

## 1.52 opentracing-noop 0.31.0

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\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpan.java

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\*

/opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java

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## 1.53 snake-yaml 1.15

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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.}

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@end smallexample

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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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@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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- the documentation.

## 1.57 diffutils 3.6-1

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Version 3, 29 June 2007

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## 1.59 debianutils 4.8.4

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```
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## 1.60 findutils 4.6.0+git+20170828-2

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Version 3, 29 June 2007

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\*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

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

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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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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This is the Debian GNU/Linux prepackaged version of the EXT2 file  
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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

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

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

```
all:: image
```

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

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

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

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

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDFLAGS)
```

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

This is the Debian GNU/Linux prepackaged version of the `ss` command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at <http://e2fsprogs.sourceforge.net>. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o  
23-June-2007

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```
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu:/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu:/pub/linux/packages/ext2fs/)

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## 1.65 sed 4.4-2

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Source files: login\_access.c, login\_desrpc.c, login\_krb.c are derived from the logdaemon-5.0 package, which is under the following license:

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Files: \*

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## 1.81 nhttp 1.30.0-1ubuntu1

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Upstream-Name: nhttp2

Upstream-Contact: Tatsuhiro Tsujikawa <t-tujikawa@users.sourceforge.net>

Source: <https://github.com/tatsuhiro-t/nhttp2>

Files: \*

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Upstream-Name: LibYAML

Upstream-Contact: Kirill Simonov <xi@resolvent.net>

Source: <http://pyyaml.org/wiki/LibYAML>

Files: \*

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## 1.92 iconv 2.27-3ubuntu1

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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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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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,

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

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

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END OF TERMS AND CONDITIONS



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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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The

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

Other developers who have contributed code are:

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- a) Accompany



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

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

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

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## 1.100 inetutils 1.9.4-3

### 1.100.1 Available under license :

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## 1.103 libxmu 1.1.2-2

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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# 1.114 maven-plugin-parameter-documenter 2.0.9

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# 1.115 sisu-inject-bean 1.4.2

## 1.116 maven-shared-utils 0.1

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# 1.119 maven-monitor 2.0.6

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\* /opt/cola/permits/1000058928\_1646171451.16/0/maven-toolchain-1-0-sources-  
jar/org/apache/maven/toolchain/java/JavaToolChain.java

\* /opt/cola/permits/1000058928\_1646171451.16/0/maven-toolchain-1-0-sources-  
jar/org/apache/maven/toolchain/java/DefaultJavaToolchainFactory.java

\* /opt/cola/permits/1000058928\_1646171451.16/0/maven-toolchain-1-0-sources-  
jar/org/apache/maven/toolchain/ToolchainPrivate.java

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Found in path(s):

\* /opt/cola/permits/1000058928\_1646171451.16/0/maven-toolchain-1-0-sources-jar/META-INF/plexus/components.xml

## 1.122 sisu-inject-plexus 1.4.2

## 1.123 plexus-compiler-javac 2.2

## 1.124 maven-common-artifact-filters 1.3

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# 1.125 maven-plugin-annotations 3.3

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

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

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

\*uganda.txt\* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\*

SUMMARY

\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>  
<http://www.vim.org/iccf/>  
<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage

examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:
  - a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding

modified Vim, or as long

as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading

the files to a server and e-mailing the URL.

If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is

<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all

further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

---

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine.

They are sold  
below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship  
the amounts are

very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o.  
box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If

you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is

the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:



[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

/\*

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\*

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```
" Vim syntax file
" Language: Software Distributor product specification file
" (POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001
```

```
" quit when a syntax file was already loaded
if exists("b:current_syntax")
  finish
endif
```

```
" Product specification files are case sensitive
```

syn case match

syn keyword psfObject bundle category control\_file depot distribution

syn keyword psfObject end file fileset host installed\_software media

syn keyword psfObject product root subproduct vendor

syn match psfUnquotString +[^\s# ]+ contained

syn region psfQuotString start="+\" skip="+\\\" end="+\" contained

syn match psfObjTag "\<[-\_A-Z0-9a-z]\+(\.[-\_A-Z0-9a-z]\+)\*" contained

syn match psfAttAbbrev ",\<(fa|fr|[aclqrv])\(\<|>|\<=|\>=|\<==|\>==\)[^\,]+\>" contained

syn match psfObjTags "\<[-\_A-Z0-9a-z]\+(\.[-\_A-Z0-9a-z]\+)\*\(\s+\<[-\_A-Z0-9a-z]\+(\.[-\_A-Z0-9a-z]\+)\*\)\*" contained

syn match psfNumber "\<d\+>" contained

syn match psfFloat

"\<d\+>\(\.d\+\>)\*" contained

syn match psfLongDate "\<d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d>" contained

syn keyword psfState available configured corrupt installed transient contained

syn keyword psfPState applied committed superseded contained

syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:

" architecture category\_tag control\_directory copyright

" create\_date description directory file\_permissions install\_source

" install\_type location machine\_type mod\_date number os\_name os\_release

" os\_version pose\_as\_os\_name pose\_as\_os\_release readme revision

" share\_link title vendor\_tag

syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s\*[\^# ]+\s+[\^# ]~rs=e-1

contains=psfUnquotString,psfComment end=~\$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s\*[\^# ]+\s+"~rs=e-1

contains=psfQuotString,psfComment skip=~\\\"~ matchgroup=psfQuotString end=~\"~ keepend

" These regions

are defined in attempt to do syntax checking for some

" of the attributes.

syn region psfAttTag matchgroup=psfAttrib start="^\s\*tag\s+" contains=psfObjTag,psfComment end="\$" keepend

oneline

syn region psfAttSpec matchgroup=psfAttrib

start="^\s\*(ancestor|applied\_patches|applied\_to|contents|corequisites|exquisites|prerequisites|software\_spec|

supersedes|superseded\_by)\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="\$" keepend

```
syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="$"
keepend
```

```
syn region psfAttNumber matchgroup=psfAttrib
start="^\s*\|(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline
```

```
syn region psfAttTime matchgroup=psfAttrib start="^\s*\|(create_time\|ctime\|mod_time\|mtime\|timestamp)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline
```

```
syn region psfAttFloat matchgroup=psfAttrib start="^\s*\|(data_model_revision\|layout_version)\s\+"
contains=psfFloat,psfComment end="$" keepend oneline
```

```
syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+" contains=psfLongDate,psfComment
end="$" keepend oneline
```

```
syn region psfAttState matchgroup=psfAttrib start="^\s*\|(state)\s\+" contains=psfState,psfComment end="$"
keepend oneline
```

```
syn region psfAttPState matchgroup=psfAttrib start="^\s*\|(patch_state)\s\+" contains=psfPState,psfComment
end="$" keepend oneline
```

```
syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*\|(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse)\s\+"
contains=psfBoolean,psfComment end="$" keepend oneline
```

```
syn match psfComment "#.*$"
```

```
" Define the default highlighting.
" Only when an item doesn't have highlighting yet
```

```
hi def link psfObject    Statement
hi def link psfAttrib    Type
hi def link psfQuotString String
hi def link psfObjTag    Identifier
hi def link psfAttAbbrev PreProc
hi def link
psfObjTags    Identifier

hi def link psfComment    Comment
```

```
" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100
```

let b:current\_syntax = "psf"

# 1.129 inetutils 0.17-41

## 1.129.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

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

@c End:

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```

```
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>
```

```
template <int i>
```

```
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
int main() { }
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
```

```
<link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
```

```
<link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />
```

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

```
var DOCUMENTATION_OPTIONS = {
```

```
  URL_ROOT:    '..',
```

```
  VERSION:    '0.6',
```

```
  COLLAPSE_INDEX: false,
```

```
  FILE_SUFFIX: '.html',
```

```
  HAS_SOURCE: true,
```

```
  SOURCELINK_SUFFIX: '.txt'
```

```
};
```

```
</script>
```

```
<script type="text/javascript" src="../../_static/jquery.js"></script>
```

```
<script type="text/javascript" src="../../_static/underscore.js"></script>
```

```
<script type="text/javascript" src="../../_static/doctools.js"></script>
```

```
<link rel="index" title="Index" href="../../genindex.html" />
```

```
<link rel="search" title="Search" href="../../search.html" />
```

```

    <link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p" href="acknowledgements.html"></a>
<a accesskey="u" href="../../index.html"></a>
<a accesskey="h" href="../../index.html"></a>
<a accesskey="n" ></a>
</div>

    <div class="document">
<div class="chapter">
    <div class="body" role="main">

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</div>

```



```

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</div>
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</div>
<div class="footer" role="contentinfo">
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<td align="right"><div class="copyright-footer">
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    </p>
</div></td>
</tr></table>
</div>
</body>
</html>

```

```

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```

```

#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

```

```

template <typename X>
struct f { using type = X; };

```

```

template <int i>
struct t { };

```

```

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

```

```

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

```

```

int main() { }
////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga    2006-2014

```

```
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//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/intrusive for documentation.
//
////////////////////////////////////
```

```
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

```
#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
```

```
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif
```

```
#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>
```

```
namespace boost {
namespace intrusive {
namespace detail {
```

```
using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using
boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
```

```

using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using
    boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
    template <typename T> \
    struct boost_intrusive_has_type_ ## TNAME \
    { \
        template <typename X> \
        static char test(int, typename X::TNAME*); \
    } \
    \
    template <typename X> \
    static int test(...);

```

```

static const bool value = (1 == sizeof(test<T>(0, 0))); \
}; \
\
template <typename T, typename DefaultType> \
struct boost_intrusive_default_type_ ## TNAME \
{ \
    struct DefaultWrap { typedef DefaultType TNAME; }; \
\
    typedef typename \
        ::boost::intrusive::detail::if_c \
            < boost_intrusive_has_type_ ## TNAME<T>::value \
\
        , T, DefaultWrap>::type::TNAME type; \
}; \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, \
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
    INSTANTIATION_NS_PREFIX \
        boost_intrusive_has_type_ ## TNAME< T >::value \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType> \
struct boost_intrusive_eval_default_type_ ## TNAME \
{ \
    template <typename X> \
        static char \
test(int, typename X::TNAME*); \
\
    template <typename X> \
        static int test(...); \
\
    struct DefaultWrap \
    { typedef typename DefaultType::type TNAME; }; \
\
    static const bool value = (1 == sizeof(test<T>(0, 0))); \
\
    typedef typename \
        ::boost::intrusive::detail::eval_if_c \
            < value \
        , ::boost::intrusive::detail::identity<T> \

```

```

        , ::boost::intrusive::detail::identity<DefaultWrap>
    \
    >::type::TNAME type;
};
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
    template<bool Add>\
    struct two_or_three {yes_type _[2 + Add];};\
    template <class U> static yes_type test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS_NAME \
{\
    private: \
    template<Signature> struct helper;\
    template<typename T> \
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
    template<typename T> static ::boost::intrusive::detail::no_type test(...); \
    public: \
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
};\
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \

```

```

struct TRAITS_NAME \
{ \
  struct BaseMixin \
  { \
    void FUNC_NAME(); \
  }; \
  struct Base : public Type, public BaseMixin { Base(); }; \
  template <typename T, T t> class Helper{}; \
  template <typename U> \
  static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
  static ::boost::intrusive::detail::yes_type test(...); \

static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, \
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\
\
template <typename Type, class> \
struct TRAITS_NAME \
: public TRAITS_NAME##_ignore_signature<Type> \
{ }; \
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
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```

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[quickbook 1.5]

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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [[@../../../../libs/mpl/doc/refmanual/integral-constant.html](http://www.boost.org/libs/mpl/doc/refmanual/integral-constant.html) Integral Constant type].

Please note that these types no longer inherit from `mpl::true_`` or `mpl::false_`` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant`` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

[endsect]

[/

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]

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">

<title>MPL Interoperability</title>

<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">

```

<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
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<link rel="up" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsic">
<link rel="next" href="examples.html" title="Examples">
</head>
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<td align="center"><a href="../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../more/index.htm">More</a></td>
</tr></table>
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</div>
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<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an <a href="../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral Constant type</a>.
</p>
<p>
Please note that these types no longer inherit from <code class="computeroutput"><span class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code> or <code class="computeroutput"><span class="identifier">mpl</span><span class="special">::</span><span class="identifier">false_</span></code> etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from <code class="computeroutput"><span class="identifier">integral_constant</span></code> to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
</p>
</div>
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```

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target="\_top">http://www.boost.org/LICENSE\_1\_0.txt</a>

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</tr></table>
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accesskey="u" href="index.html"></a><a accesskey="h"
href="index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>
```

[article Copyright Test

[quickbook 1.5]

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]

var group\_\_group\_ext\_mpl =

[

[ "integral\_c", "structboost\_1\_1mpl\_1\_1integral\_\_c.html", null ],

[ "list", "structboost\_1\_1mpl\_1\_1list.html", null ],

[ "vector", "structboost\_1\_1mpl\_1\_1vector.html", null ]

];

////////////////////////////////////

//

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//

// See http://www.boost.org/libs/container for documentation.

//

////////////////////////////////////

#ifndef BOOST\_CONTAINER\_CONTAINER\_DETAIL\_MPL\_HPP

#define BOOST\_CONTAINER\_CONTAINER\_DETAIL\_MPL\_HPP

#ifndef BOOST\_CONFIG\_HPP

```

# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using
    boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool__;
using boost::move_detail::true__;
using boost::move_detail::false__;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

```

```

template
<class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first; }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first); }
};

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
    : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{
};

} //namespace dtl {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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```

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```
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
              '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('\t')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year ==
end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))
```

```

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^(?P<prefix>\W*)(\(\c\))?\s*?copyright\s*(\(\c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
        if m:
            d = m.groupdict()
            prefix.add(d['prefix'])
            lines.append(i)
            names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in
lines:
            for repl in new:
                print >>f, prefix + repl
            else:
                print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

```

Maybe this should pass?



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-->

<section id="date\_time.license">

<title>Boost Date-Time Library License</title>

<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>

<!--

<ulink url="../../index.htm">

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format="GIF"

fileref="../../boost.png"

alt="C++ Boost" />

</ulink>-->

<!--hr /-->

<para>

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Jonathan Turkanis (turkanis -at- coderage dot com)  
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)  
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)  
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)  
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)  
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)  
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)  
Mac Murrett (mmurrett -at- mac.com)  
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)  
Michael Glassford (glassfordm - at - hotmail.com)  
Michael Stevens (Michael.Stevens - at - epost.de)  
Multi Media Ltd. (pdimov@mmltd.net)  
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)  
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)  
Paul Mensoides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)  
Pavol Droba (droba -at- topmail.sk)  
Peter Dimov (pdimov@mmltd.net)  
R W Grosse-Kunsteleve (RWGrosse-Kunsteleve@lbl.gov)  
Ralf W. Grosse-Kunsteleve (RWGrosse-Kunsteleve@lbl.gov)  
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)  
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)  
Robert Ramey (ramey@www.rrsd.com)  
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)  
Roland Schwarz (roland.schwarz -at- chello.at)  
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)  
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)  
Stefan Seefeld (seefeld -at- sympatico.ca)  
Stephen Cleary (sccleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)  
Steve  
Cleary (Variant of Stephen Cleary)  
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)  
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Thorsten Ottosen (nesotto - at - cs.auc.dk)  
Toon Knapen (toon dot knapen - at - fft.be)  
Trustees of Indiana University ()  
University of Notre Dame ()  
Vladimir Prus (ghost@cs.msu.su)  
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)  
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)  
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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-->

<!-- boost-no-inspect -->

<!-- HTML header for doxygen 1.8.9.1-->

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

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

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

<head>

<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>

<meta http-equiv="X-UA-Compatible" content="IE=9"/>

<meta name="generator" content="Doxygen 1.8.11"/>

```

<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript"
src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
  extensions: ["tex2jax.js"],
  jax: ["input/TeX", "output/HTML-CSS"],
});
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MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link
href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">

```

```

<table cellpadding="0" cellspacing="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
&#160;<span id="projectnumber">1.5.0</span>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td> <div id="MSearchBox" class="MSearchBoxInactive">
<span class="left">


<input type="text" id="MSearchField" value="Search" accesskey="S"
onfocus="searchBox.OnSearchFieldFocus(true)"
onblur="searchBox.OnSearchFieldFocus(false)"
onkeyup="searchBox.OnSearchFieldChange(event)"/>
</span><span class="right">
<a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
</span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
<div id="nav-tree-contents">
<div id="nav-sync" class="sync"></div>
</div>
</div>
<div id="splitbar" style="-moz-user-select:none;"
class="ui-resizable-handle">
</div>
</div>
<script type="text/javascript">

```

```

$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
  onmouseover="return searchBox.OnSearchSelectShow()"
  onmouseout="return searchBox.OnSearchSelectHide()"
  onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
  name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
  <div class="summary">
<a href="#nested-classes">Classes</a> </div>
  <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a
  class="el" href="group__group-ext.html">External adapters</a></div></div> </div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c&lt; T, v &gt;</a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1list.html">boost::mpl::list&lt; T &gt;</a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector&lt; T &gt;</a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>

```

```
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>
```

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

## HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

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

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



Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>&lt;no title&gt; &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './',
      VERSION:    '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link
rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
```

<a accesskey="p" ></a>  
<a accesskey="u" href="doc/index.html"></a>  
<a accesskey="h" href="doc/index.html"></a>  
<a accesskey="n" ></a>  
</div>

<div class="document">  
<div class="chapter">  
<div class="body" role="main">

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</div>

</div>

<div class="clearer"></div>

</div>

<div class="footer" role="contentinfo">

<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>

<td align="left"></td>

<td align="right"><div class="copyright-footer">

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Created using <a href="http://sphinx-doc.org/">Sphinx</a> 1.5.6.

```
    <p>Distributed under the Boost Software License, Version 1.0.  
    (See accompanying file <code class="filename">LICENSE_1_0.txt</code> or copy at  
    <a href="http://www.boost.org/LICENSE_1_0.txt"  
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
```

```
  </p>  
</div></td>  
</tr></table>  
</div>  
</body>  
</html>  
<!DOCTYPE html>  
<html>  
<head></head>  
<body>  
<h3>  
  Copyright Test  
</h3>  
<p class="copyright">  
  1963, 1964, 1965 Jane Doe  
</p>  
<p class="copyright">  
  2018 Joe Blow, John Coe  
</p>  
<p class="copyright">  
  1977, 1985 Someone else  
</p>  
</body>  
</html>  
<?xml version="1.0" encoding="UTF-8"?>  
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"  
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">  
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"  
xmlns:xi="http://www.w3.org/2001/XInclude">  
<title>Copyright Test</title>  
<articleinfo>  
<copyright>  
  <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>  
</copyright>  
<copyright>  
  <year>2018</year> <holder>Joe Blow, John Coe</holder>  
</copyright>  
<copyright>  
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>  
</copyright>  
</articleinfo>  
</article>  
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```

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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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```
#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>
```

```
template <typename State, typename X>
struct f { using type = X; };
```

```
struct state { };
```

```

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }
///
//
// (C) Copyright Ion Gaztanaga 2005-2016.
//
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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
///

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{

```



```

    static const bool value = C_;
};

typedef bool_<true>    true_;
typedef
    bool_<false>    false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
    , typename T1
    , typename T2
    >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
    >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

```

```

template<
    typename T1
    , typename T2
    , typename T3
    >
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
[/=====
Boost.Geometry (aka GGL, Generic Geometry Library)

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Copyright (c) 2008-2013 Bruno Lalande, Paris, France.
Copyright (c) 2009-2013 Mateusz Loskot, London, UK.

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http://www.boost.org/LICENSE\_1\_0.txt)
=====/]
/*
*

```

```
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* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/
```

```
#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
    return os;
}

std::string
make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
}
```

```

return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">\n"
        "<html>\n"
        "<head>\n"
        "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</title>\n"
        "</head>\n"
        "<body>\n"
        "<H1>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</H1>\n"
        "<H2>Contents</h2>\n"
        "<pre><a href=\"#input\">Input Information</a>\n";
    if(!m_bsl_summary_mode)
        os << "<a href=\"#summary\">Licence Summary</a>\n";
    os << "<a href=\"#details\">Licence Details</a>\n";

    while(i != j)

```

```

{
    // title:
    os << " <a href=\"#\" << make_link_target(licenses.first[i->first].license_name)
        << "\">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
    "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
        "Moving to the Boost Software License...\n"
        " <a href=\"#bsl-converted\">Files
that can be automatically converted to the Boost Software License</a>\n"
        " <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
        " <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
        " <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
        "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
    "<a href=\"#depend\">File Dependency Information</a>\n"
    "</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os
    << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");

```

```

static const boost::regex version_regex(
    "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence
Summary</h2>\n";
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()
            << " files <a href=\"#\" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)
{
    // title:
    os <<

```

```

    "<H3><A name=\" << make_link_target(licenses.first[i->first].license_name)
    << "\"></a>" << licenses.first[i->first].license_name
<< "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
        while(m != n)
        {
            os << split_path(m_boost_path,
*m) << "<br>\n";
            ++m;
        }
        os << "</P></BLOCKQUOTE>\n";
    }
    else
    {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    }
    ++license_index;
    ++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
    std::set<fs::path, path_less>::const_iterator i2, j2;

```

```

i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found
copyright holder:
//
os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
        << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
            ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
                << "</tt><br>\n<table border=\"1\">\n <tr>\n <td><pre>"
                << i->second.first << "</pre></td>\n <td><pre>"
                << i->second.second << "</pre></td>\n </tr>\n</table>\n";
        }
    }
}

```



```

    ++i;
    ++file_num;
}
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually
converted to the Boost Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that
we need permission for to move to the BSL
//
os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";

```

```

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path,
path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}
os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(),
m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
}

```

```

    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
            {
                os << " -> ";
                if(fs::exists(m_boost_path / dep->second))
                    os << split_path(m_boost_path, dep->second);
                else if(fs::exists(dep->second))
                    os << split_path(fs::path(), dep->second);
                else
                    os << dep->second.string();
                if(seen_deps.find(dep->second) != seen_deps.end())
                    {
                        os << " <I>(Circular dependency!)</I>";
                        break; // circular dependency!!!
                    }
                seen_deps.insert(dep->second);
                last_dep = dep;
                dep = m_dependencies.find(dep->second);
                if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                    break;
            }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
}

```

# 1.131 pcre 8.41

## 1.131.1 Available under license :

PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

### THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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### PCRE JUST-IN-TIME COMPILATION SUPPORT

-----

Written by: Zoltan Herczeg  
Email local part: hzmester  
Email domain: freemail.hu

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## STACK-LESS JUST-IN-TIME COMPILER

-----

Written by: Zoltan Herczeg  
Email local part: hzmester  
Email domain: freemail.hu

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## THE C++ WRAPPER FUNCTIONS

-----

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## 1.132 opentracing-util 0.31.0

### 1.132.1 Available under license :

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

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Found in path(s):

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-util/pom.xml

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

/\*

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\*

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\* the License.

\*/

Found in path(s):

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScopeManager.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScope.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java

\*

/\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/GlobalTracer.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScope.java

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## 1.135 geronimojmspec 1.1.1

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jar/org/apache/velocity/runtime/parser/node/ASTModNode.java  
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\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/util/ContextAware.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/anakia/AnakiaElement.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/runtime/parser/node/ASTDirective.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/runtime/directive/MacroParseException.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/app/event/implement/EscapeJavaScriptReference.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/runtime/parser/node/MapGetExecutor.java  
\*  
/opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/runtime/parser/node/ASTAssignment.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/app/event/implement/IncludeRelativePath.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/runtime/parser/node/ASTWord.java  
\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-

```

jar/org/apache/velocity/exception/TemplateInitException.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/util/introspection/SecureIntrospectorControl.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/resource/loader/JarHolder.java
*
/opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/resource/ResourceCache.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/parser/node/BooleanPropertyExecutor.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/util/introspection/IntrospectorBase.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/app/tools/VelocityFormatter.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/util/introspection/IntrospectorCache.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/log/LogChuteSystem.java
*
/opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/resource/ResourceManager.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/util/introspection/Introspector.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/directive/Macro.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/directive/InputBase.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/util/introspection/SecureIntrospectorImpl.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/app/event/implement/InvalidReferenceInfo.java
*
/opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/Runtime.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/app/event/implement/EscapeHtmlReference.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/util/introspection/VelPropertyGet.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/app/event/EventHandler.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/util/introspection/MethodMap.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/parser/node/ASTGENode.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/log/AvalonLogChute.java
*

```

```
/opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/RuntimeSingleton.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/resource/Resource.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/parser/node/SimpleNode.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/parser/node/ASTBlock.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/parser/node/ASTIfStatement.java
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/parser/node/MathUtils.java
*
```

```
/opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/runtime/parser/node/Node.java
```

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

```
/*
```

```
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
```

```
*/
```

```
/**
```

```
* Stores the event handlers. Event handlers can be assigned on a per
* VelocityEngine instance basis by specifying
the class names in the
* velocity.properties file. Event handlers may also be assigned on a per-page
* basis by creating a new instance of EventCartridge, adding the event
* handlers, and then calling attachToContext. For clarity, it's recommended
* that one approach or the other be followed, as the second method is primarily
* presented for backwards compatibility.
```

```
*
```

```
* <P>
```

```
* Note that Event Handlers follow a filter pattern, with multiple event
* handlers allowed for each event. When the appropriate event occurs, all the
```

```
* appropriate event handlers are called in the sequence they were added to the
* Event Cartridge. See the javadocs of the specific event handler interfaces
* for more details.
*
* @author <a href="mailto:wglass@wglass@forio.com">Will Glass-Husain </a>
* @author <a href="mailto:geirm@optonline.net">Geir Magnusson Jr. </a>
* @author <a href="mailto:j_a_fernandez@yahoo.com">Jose Alberto Fernandez </a>
* @version $Id: EventCartridge.java 470256 2006-11-02
07:20:36Z wglass $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
jar/org/apache/velocity/app/event/EventCartridge.java
```

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

```
/*@bgen(jjtree) Generated By:JJTree: Do not edit this line.
```

```
/Users/hgschmie/scratch/velocity/engine/src/java/org/apache/velocity/runtime/parser/Parser.jj */
```

```
/*@egen**
```

```
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing
permissions and limitations
* under the License.
```

```
*/
```

```
/*
```

```
* NOTE : please see documentation at bottom of this file. (It was placed there its tiring
* to always have to page past it... :)
```

```
*/
```

```
options
```

```
{
```

```
/**
```

```
* The parser must be non-static in order for the
* above option to work, otherwise the parser value
```

```

    * is passed in as null, which isn't all the useful ;)
    */
    STATIC=false;

    /**
     * Declare that we are accepting unicode input and
     * that we are using a custom character stream class
     * Note that the char stream class is really a slightly
     * modified ASCII_CharStream, as it appears we are safe
     * because we only deal with pre-encoding-converted
     * Readers rather than raw input streams.
     */
    UNICODE_INPUT=true;
    USER_CHAR_STREAM=true;

    /**
     * for debugging purposes. Keep false
     */
    DEBUG_PARSER=false;
    DEBUG_TOKEN_MANAGER=false;
}

PARSER_BEGIN(Parser)
package
org.apache.velocity.runtime.parser;

import java.io.*;
import java.util.*;

import org.apache.velocity.runtime.RuntimeServices;
import org.apache.velocity.runtime.parser.node.*;
import org.apache.velocity.runtime.directive.Directive;
import org.apache.velocity.runtime.directive.Macro;
import org.apache.velocity.runtime.directive.MacroParseException;
import org.apache.velocity.util.StringUtils;

    /**
     * This class is responsible for parsing a Velocity
     * template. This class was generated by JavaCC using
     * the JJTree extension to produce an Abstract
     * Syntax Tree (AST) of the template.
     *
     * Please look at the Parser.jjt file which is
     * what controls the generation of this class.
     *
     * @author <a href="mailto:jvanzyl@apache.org">Jason van Zyl</a>
     * @author <a href="mailto:geirm@optonline.net">Geir Magnusson Jr.</a>
     * @author <a href="mailto:hps@intermeta.de">Henning P. Schmiedehausen</a>

```

```

* @version $Id: Parser.jj 463419 2006-10-12 20:39:49Z henning $
*/
public
class Parser/*@bgen(jjtree)*/implements ParserTreeConstants/*@egen*/
{/*@bgen(jjtree)*/
protected JJTParserState jjtree = new JJTParserState();

/*@egen*/
/**
 * This Hashtable contains a list of all of the dynamic directives.
 */
private Hashtable directives = new Hashtable(0);

/**
 * Name of current template we are parsing. Passed to us in parse()
 */
String currentTemplateName = "";

VelocityCharStream velcharstream = null;

private RuntimeServices rsvc = null;

/**
 * This constructor was added to allow the re-use of parsers.
 * The normal constructor takes a single argument which
 * an InputStream. This simply creates a re-usable parser
 * object, we satisfy the requirement of an InputStream
 * by using a newline character as an input stream.
 */
public Parser( RuntimeServices rs)
{
/*
 * need to call the CTOR first thing.
 */

this(
new VelocityCharStream(
    new ByteArrayInputStream("\n".getBytes()), 1, 1 ));

/**
 * now setup a VCS for later use
 */
velcharstream = new VelocityCharStream(
    new ByteArrayInputStream("\n".getBytes()), 1, 1 );

/**
 * and save the RuntimeServices
 */

```

```

    rsvc = rs;
}

/**
 * This was also added to allow parsers to be
 * re-usable. Normal JavaCC use entails passing an
 * input stream to the constructor and the parsing
 * process is carried out once. We want to be able
 * to re-use parsers: we do this by adding this
 * method and re-initializing the lexer with
 * the new stream that we want parsed.
 */
public SimpleNode parse( Reader reader, String templateName )
    throws ParseException
{
    SimpleNode sn = null;

    currentTemplateName = templateName;

    try
    {
        token_source.clearStateVars();

        /*
         * reinitialize the VelocityCharStream
         * with the new reader
         */
        velcharstream.ReInit( reader, 1, 1 );

        /*
         * now reinit the Parser with this CharStream
         */
        ReInit( velcharstream );

        /*
         * do that voodoo...
         */
        sn = process();
    }
    catch (MacroParseException mee)
    {
        /*
         * thrown by the Macro class when something is amiss in the
         * Macro specification
         */
        rsvc.getLog().error("Parser Error: #macro() : " + templateName, mee);
        throw mee;
    }
}

```

```

    catch (ParseException pe)
    {
        rsvc.getLog().error("Parser Exception: " + templateName, pe);
        throw new TemplateParseException (pe.currentToken,
        pe.expectedTokenSequences, pe.tokenImage, currentTemplateName);
    }
    catch (TokenMgrError tme)
    {
        throw new ParseException("Lexical error: " + tme.toString());
    }
    catch (Exception e)
    {
        rsvc.getLog().error("Parser Error: " + templateName, e);
    }

    currentTemplateName = "";

    return sn;
}

/**
 * This method sets the directives Hashtable
 */
public void setDirectives(Hashtable directives)
{
    this.directives = directives;
}

/**
 * This method gets a Directive from the directives Hashtable
 */
public Directive getDirective(String directive)
{
    return (Directive) directives.get(directive);
}

/**
 * This method finds out of the directive exists in the directives
 * Hashtable.
 */
public boolean isDirective(String directive)
{
    return directives.containsKey(directive);
}

/**
 * Produces a processed output for an escaped

```



```

control or
    * pluggable directive
    */
private String escapedDirective( String strImage )
{
    int iLast = strImage.lastIndexOf("\\");

    String strDirective = strImage.substring(iLast + 1);

    boolean bRecognizedDirective = false;

    /*
    * is this a PD or a control directive?
    */

    if ( isDirective( strDirective.substring(1)))
    {
        bRecognizedDirective = true;
    }
    else if ( rsvc.isVelocimacro( strDirective.substring(1), currentTemplateName))
    {
        bRecognizedDirective = true;
    }
    else
    {
        /* order for speed? */

        if ( strDirective.substring(1).equals("if")
            || strDirective.substring(1).equals("end")
            || strDirective.substring(1).equals("set")
            || strDirective.substring(1).equals("else")
            || strDirective.substring(1).equals("elseif")

            || strDirective.substring(1).equals("stop")
        )
        {
            bRecognizedDirective = true;
        }
    }

    /*
    * if so, make the proper prefix string (let the escapes do their thing..)
    * otherwise, just return what it is..
    */

    if (bRecognizedDirective)
        return ( strImage.substring(0,iLast/2) + strDirective);
    else

```

```

        return ( strImage );
    }
}

PARSER_END(Parser)

TOKEN_MGR_DECLS:
{
    private int fileDepth = 0;

    private int lparen = 0;
    private int rparen = 0;

    Stack stateStack = new Stack();
    public boolean debugPrint = false;

    private boolean inReference;
    public boolean inDirective;
    private boolean inComment;
    public boolean inSet;

    /**
     * pushes the current state onto the 'state stack',
     * and maintains the parens counts
     * public because we need it in PD & VM handling
     *
     * @return boolean : success. It can fail if the state machine
     * gets messed up (do don't mess it up :)
     */
    public boolean stateStackPop()
    {
        Hashtable h;

        try
        {
            h = (Hashtable) stateStack.pop();
        }
        catch( EmptyStackException e)
        {
            lparen=0;
            SwitchTo(DEFAULT);
            return false;
        }

        if( debugPrint )
            System.out.println(
                " stack pop (" + stateStack.size() + ") : lparen=" +

```

```

        ( (Integer) h.get("lparen")).intValue() +
        " newstate=" + ( (Integer) h.get("lexstate")).intValue() );

lparen = ( (Integer) h.get("lparen")).intValue();
rparen = ( (Integer) h.get("rparen")).intValue();

SwitchTo( ( (Integer) h.get("lexstate")).intValue() );

return true;
}

/**
 * pops a state off the stack, and restores paren counts
 *
 * @return boolean : success of operation
 */
public boolean stateStackPush()
{
    if( debugPrint )
        System.out.println(" (" + stateStack.size() + ") pushing cur state : " +
            curLexState );

    Hashtable h = new Hashtable();

    h.put("lexstate", new Integer( curLexState ) );
    h.put("lparen", new Integer( lparen ));
    h.put("rparen", new Integer( rparen ));

    lparen = 0;

    stateStack.push( h );

    return true;
}

/**
 * Clears all state variables, resets to
 * start values, clears stateStack. Call
 * before parsing.
 * @return void
 */
public void clearStateVars()
{
    stateStack.clear();

    lparen = 0;
    rparen = 0;
}

```

```

inReference = false;
inDirective = false;
inComment = false;
inSet = false;

return;
}

/**
 * handles the dropdown logic when encountering
a RPAREN
 */
private void RPARENHandler()
{
    /*
     * Ultimately, we want to drop down to the state below
     * the one that has an open (if we hit bottom (DEFAULT),
     * that's fine. It's just text schmoo.
     */

    boolean closed = false;

    if (inComment)
        closed = true;

    while( !closed )
    {
        /*
         * look at current state. If we haven't seen a lparen
         * in this state then we drop a state, because this
         * lparen clearly closes our state
         */

        if( lparen > 0)
        {
            /*
             * if rparen + 1 == lparen, then this state is closed.
             * Otherwise, increment and keep parsing
             */

            if( lparen == rparen + 1)
            {
                stateStackPop();
            }
            else
            {
                rparen++;
            }

```

```
        closed = true;
    }
    else
    {
        /*
        * now, drop a state
        */

        if(!stateStackPop())
            break;
    }
}
}

/* -----
*
* Tokens
*
* Note : we now have another state, REFMODIFIER. This is sort of a
* type of REFERENCE state, simply use to use the DIRECTIVE token
* set when we are processing a $foo.bar() construct
*
* ----- */

<DIRECTIVE,REFMOD2>
TOKEN:
{
  <LBRACKET: "[">
| <RBRACKET: "]">
| <COMMA:",">
}

<DIRECTIVE, REFMOD2>
TOKEN:
{
  <DOUBLEDOT : ".." >
}

<DIRECTIVE, REFMOD2>
TOKEN:
{
  <COLON : ":" >
}

<DIRECTIVE, REFMOD2>
TOKEN :
```

```

{
  <LEFT_CURLEY : "{" >
  | <RIGHT_CURLEY : "}" >
}

```

<DIRECTIVE,REFMODIFIER>

TOKEN:

```

{
  <LPAREN: "(">
  {
    if (!inComment)
      lparen++;

    /*
     * If in REFERENCE and we have seen the dot, then move
     * to REFMOD2 -> Modifier()
     */

    if (curLexState == REFMODIFIER )
      SwitchTo( REFMOD2 );
  }
}

```

```

/*
* we never will see a ')' in anything but DIRECTIVE and REFMOD2.
* Each have their own
*/

```

<DIRECTIVE>

TOKEN:

```

{
  /*
   * We will eat any whitespace upto and including a newline for directives
   */
  <RPAREN: ")" ( ( " " | "\t" ) * ( "\n" | "\r" | "\r\n" ) )?>
  {
    RPARENHandler();
  }
}

```

<REFMOD2>

TOKEN:

```

{
  /*
   * in REFMOD2, we don't want to bind the whitespace and \n like we
   * do when closing a directive.
   */
  <REFMOD2_RPAREN: ")">

```

```

{
  /*
   * need to simply switch back to REFERENCE, not drop down the stack
   * because we can (infinitely) chain, ala
   * $foo.bar().blargh().woogie().doogie()
   */

  SwitchTo( REFERENCE );
}
}

/*-----
*
* escape "\\" handling for the built-in directives
*
*----- */
TOKEN:
{
  /*
   * We have to do this, because we want these to be a Text node, and
   * whatever follows to be peer to this text in the tree.
   *
   * We need to touch the ASTs for these, because we want an even # of \s
   * to render properly in front of the block
   *
   * This is really simplistic. I actually would prefer to find them in
   * grammatical context, but I am neither smart nor rested, a recipe
   * for disaster, another long night with Mr. Parser, or both.
   */

  <ESCAPE_DIRECTIVE : (<DOUBLE_ESCAPE>)* "\\#" <WORD> >
}

/*
* needed because #set is so wacky in it's desired behavior. We want set
* to eat any preceding whitespace so it is invisible in formatting.
* (As it should be.) If this works well, I am going to chuck the whole MORE:
* token abomination.
*/
TOKEN:
{
  <SET_DIRECTIVE: (" "|"t")* ("#set" | "#{set}") (" ")* "<
  {
    if (! inComment)
    {
      inDirective = true;

```

```

if ( debugPrint )
    System.out.print("#set : going to " + DIRECTIVE );

stateStackPush();
inSet = true;
SwitchTo(DIRECTIVE);
}

/*
 * need the LPAREN action
 */

if (!inComment)
{
    lparen++;

    /*
     * If in REFERENCE and we have seen the dot, then move
     * to REFMOD2 -> Modifier()
     */

    if (curLexState == REFMODIFIER )
        SwitchTo( REFMOD2 );
    }
}

<*>
MORE :
{
    /*
     * Note : DOLLARBANG is a duplicate of DOLLAR. They must be identical.
     */

    <DOLLAR: ("\\")* "$">
    {

        if (! inComment)
        {
            /*
             * if we find ourselves in REFERENCE, we need to pop down
             * to end the previous ref
             */

            if (curLexState == REFERENCE)
            {
                inReference = false;
                stateStackPop();
            }
        }
    }
}

```



```

    }

    inReference = true;

    if ( debugPrint )
        System.out.print( "$ : going to " + REFERENCE );

    stateStackPush();
    SwitchTo(REFERENCE);
}
}

| <DOLLARBANG: ("\\")* "$" ("\\")* "!">
{
    if (! inComment)
    {
        /*
         * if we find ourselves in REFERENCE, we need to pop down
         * to end the previous ref
         */

        if (curLexState == REFERENCE)
        {
            inReference = false;
            stateStackPop();
        }

        inReference = true;

        if ( debugPrint )

            System.out.print( "$! : going to " + REFERENCE );

        stateStackPush();
        SwitchTo(REFERENCE);
    }
}

| <"#*" ~["#"]>
{
    input_stream.backup(1);
    inComment = true;
    stateStackPush();
    SwitchTo( IN_FORMAL_COMMENT);
}

| "#*"
{

```

```

    inComment=true;
    stateStackPush();
    SwitchTo( IN_MULTI_LINE_COMMENT );
}

| <HASH : "#" >
{
    if (! inComment)
    {
        /*
         * We can have the situation where #if($foo)$foo#end.
         * We need to transition out of REFERENCE before going to DIRECTIVE.
         * I don't really like this, but I can't think of a legal way
         * you are going into DIRECTIVE while in REFERENCE. -gmj
         */

        if (curLexState == REFERENCE || curLexState == REFMODIFIER )
        {
            inReference = false;
            stateStackPop();
        }

        inDirective = true;

        if ( debugPrint )
            System.out.print("# : going to " + DIRECTIVE );

        stateStackPush();
        SwitchTo(PRE_DIRECTIVE);
    }
}
}

```

```

// treat the single line comment case separately
// to avoid ##<EOF> errors
<*>
TOKEN :
{
    <SINGLE_LINE_COMMENT_START: "##">
    {
        if (!inComment)
        {
            if (curLexState == REFERENCE)
            {
                inReference = false;
                stateStackPop();
            }
        }
    }
}

```

```

        inComment = true;
        stateStackPush();
        SwitchTo(IN_SINGLE_LINE_COMMENT);
    }
}
}

```

TOKEN :

```

{
  <DOUBLE_ESCAPE : "\\\\">
| <ESCAPE: "\\" >
| <TEXT: (~["$, #, "\\"])+ >
}

```

```

/* -----
*
* *_COMMENT Lexical tokens
*
* -----*/

```

<IN\_SINGLE\_LINE\_COMMENT>

TOKEN

```

:
{
  <SINGLE_LINE_COMMENT: "\n" | "\r" | "\r\n">
  {
    inComment = false;
    stateStackPop();
  }
}

```

<IN\_FORMAL\_COMMENT>

TOKEN :

```

{
  <FORMAL_COMMENT: "*#" >
  {
    inComment = false;
    stateStackPop();
  }
}

```

<IN\_MULTI\_LINE\_COMMENT>

TOKEN :

```

{
  <MULTI_LINE_COMMENT: "*#" >
  {
    inComment = false;

```

```

stateStackPop();
}
}

<IN_SINGLE_LINE_COMMENT,IN_FORMAL_COMMENT,IN_MULTI_LINE_COMMENT>
SKIP :
{
< ~[] >
}

/* -----
*
* DIRECTIVE Lexical State (some of it, anyway)
*
* ----- */

<DIRECTIVE,REFMOD2>
TOKEN:
{
< WHITESPACE : ([ " ", "\t", "\n", "\r" ])+ >
}

<DIRECTIVE,REFMOD2>
TOKEN :
{
// <STRING_LITERAL: ( "\'" ( ~["'", "\n", "\r" ])* "'" ) | ( "" ( ~["", "\n", "\r" ])* "" ) >
< STRING_LITERAL:
( "\'"
( ( ~["'", "\"] )
| ( "\"
( [ "n", "t", "b", "r", "f", "\\", "", "" ]
| [ "0"-"7" ] ( [ "0"-"7" ] )?
| [ "0"-"3" ] [ "0"-"7" ] [ "0"-"7" ]
)
)
| ( "\" ( " )* "\n" )
)*
"\'"
)
|
( "\'"
( ( ~["'"] )
| ( "\" ( " )* "\n" )
)*
"\'"
)
>

```

```

{
  /*
   * - if we are in DIRECTIVE and haven't seen ( yet, then also drop out.
   *   don't forget to account for the beloved yet wierd #set
   * - finally, if we are in REFMOD2 (remember : $foo.bar( ) then " is ok!
   */

  if( curLexState == DIRECTIVE && !inSet && lparen == 0)
    stateStackPop();
}
}

```

<REFERENCE,DIRECTIVE,REFMODIFIER,REFMOD2>

TOKEN:

```

{
  <TRUE: "true">
| <FALSE: "false">
}

```

<DIRECTIVE>

TOKEN :

```

{
  <NEWLINE: "\n" | "\r" | "\r\n" >
  {
    if ( debugPrint )
      System.out.println(" NEWLINE :");

    stateStackPop();

```

```

if (inSet)

```

```

    inSet = false;

```

```

    if (inDirective)

```

```

        inDirective = false;

```

```

}
}

```

<DIRECTIVE>

TOKEN :

```

{
  <MINUS: "-">
| <PLUS: "+">
| <MULTIPLY: "*">
| <DIVIDE: "/">
| <MODULUS: "%">
| <LOGICAL_AND: "&&" | "and" >

```

```

| <LOGICAL_OR: "|" | "or" >
| <LOGICAL_LT: "<" | "lt" >
| <LOGICAL_LE: "<=" | "le" >
| <LOGICAL_GT: ">" | "gt" >
| <LOGICAL_GE: ">=" | "ge" >
| <LOGICAL_EQUALS: "==" | "eq" >
| <LOGICAL_NOT_EQUALS: "!=" | "ne" >
| <LOGICAL_NOT: "!" | "not" >
| <EQUALS: "=" >
}

```

<PRE\_DIRECTIVE>

TOKEN :

```

{
  <END: ( "end" ( ( " " | "\t" ) * ( "\n" | "\r" | "\r\n" ) )? )
    | (" {end}" ( ( " " | "\t" ) * ( "\n" | "\r" | "\r\n" ) )? ) >
  {
    inDirective = false;
    stateStackPop();
  }
}

```

```

| <IF_DIRECTIVE: "if" | "{if}" >

```

```

{
  SwitchTo(DIRECTIVE);
}

```

```

| <ELSEIF_DIRECTIVE: "elseif" | "{elseif}" >

```

```

{
  SwitchTo(DIRECTIVE);
}

```

```

| <ELSE_DIRECTIVE:

```

```

  ( "else" ( ( " " | "\t" ) * ( "\n" | "\r" | "\r\n" ) )? )
  | ( "{else}" ( ( " " | "\t" ) * ( "\n" | "\r" | "\r\n" ) )? ) >
  {
    inDirective = false;
    stateStackPop();
  }
}

```

```

| <STOP_DIRECTIVE: "stop" | "{stop}" >

```

```

{
  inDirective = false;
  stateStackPop();
}
}

```

<PRE\_DIRECTIVE,DIRECTIVE,REFMOD2>

TOKEN:

```

{
<#DIGIT: [ "0"-"9" ] >

/*
 * treat FLOATING_POINT_LITERAL and INTEGER_LITERAL differently as a range can only handle integers.
 */

/**
 * Note -- we also define an integer as ending with a double period,
 * in order to avoid 1..3 being defined as floating point (1.) then a period, then a integer
 */
| <INTEGER_LITERAL: ("-"?) (<DIGIT>)+ ("..")? >
{

/*
 * Remove the double period if it is there
 */
if (matchedToken.image.endsWith("..")) {
    input_stream.backup(2);
    matchedToken.image = matchedToken.image.substring(0,matchedToken.image.length()-2);
}

/*
 * check to see if we are in set
 * ex. #set $foo = $foo + 3
 * because we want to handle the \n after
 */

if ( !paren == 0 && !inSet && curLexState != REFMOD2)
{
    stateStackPop();
}
}

| <FLOATING_POINT_LITERAL:
    ("-"?) (<DIGIT>)+ "." (<DIGIT>)* (<EXPONENT>)?
| ("-"?) "." (<DIGIT>)+ (<EXPONENT>)?
| ("-"?) (<DIGIT>)+ <EXPONENT>
>
{

/*
 * check to see if we are in set
 * ex. #set $foo = $foo + 3
 * because we want to handle the \n after
 */

if ( !paren == 0 && !inSet && curLexState != REFMOD2)
{

```

```

        stateStackPop();
    }
}
|
<#EXPONENT: ["e","E"] (["+","-"])? (["0"- "9"])+ >

}

<PRE_DIRECTIVE,DIRECTIVE>
TOKEN:
{
    <#LETTER: [ "a"- "z", "A" - "Z" ] >
| <#DIRECTIVE_CHAR: [ "a"- "z", "A"- "Z", "0"- "9", "_" ] >
|
    <WORD: ( <LETTER> | [ "_" ] ) ( <DIRECTIVE_CHAR> )* >
| <BRACKETED_WORD: "{" ( <LETTER> | [ "_" ] ) ( <DIRECTIVE_CHAR> )* "}" >

}

```

```

/* -----
*
* REFERENCE Lexical States
*
* This is more than a single state, because of the structure of
* the VTL references. We use three states because the set of tokens
* for each state can be different.
*
* $foo.bar( "arg" )
* ^ ^ ^
* | | |
* ----- > REFERENCE : state initiated by the '$' character. Continues
* | | until end of the reference, or the . character.
* |----- > REFMODIFIER : state switched to when the <DOT> is encountered.
* | note that this is a switch, not a push. See notes at bottom
* | re stateStack.
* |-- > REFMOD2 : state switch to when the LPAREN is encountered.
* again, this is a switch, not a push.
*
* -----
*/

```

```

<REFERENCE,REFMODIFIER,REFMOD2>
TOKEN :
{
    <#ALPHA_CHAR: [ "a"- "z", "A"- "Z" ] >

```



```

| <#ALPHANUM_CHAR: [ "a"-"z", "A"-"Z", "0"-"9" ] >
| <#IDENTIFIER_CHAR: [ "a"-"z", "A"-"Z", "0"-"9", "-", "_" ] >
| <IDENTIFIER: ( <ALPHA_CHAR> | [ "_" ] ) ( <IDENTIFIER_CHAR> )* >
| <DOT: "." <ALPHA_CHAR>>
{
    /*
     * push the alpha char back into the stream so the following identifier
     * is complete
     */

    input_stream.backup(1);

    /*
     * and munge the <DOT> so we just get a . when we have normal text that
     * looks like a ref.ident
     */

    matchedToken.image = ".";

    if ( debugPrint )
        System.out.print("DOT : switching to " + REFMODIFIER);
    SwitchTo(REFMODIFIER);

}
}

```

<REFERENCE,REFMODIFIER>

TOKEN :

```

{
    <LCURLY: "{">
| <RCURLY: "}">
    {
        stateStackPop();
    }
}

```

<REFERENCE,REFMODIFIER,REFMOD2>

SPECIAL\_TOKEN

```

:
{
    <REFERENCE_TERMINATOR: ~[] >
    {
        /*
         * push every terminator character back into the stream
         */

        input_stream.backup(1);
    }
}

```

```

inReference = false;

if ( debugPrint )
    System.out.print("REF_TERM :");

    stateStackPop();
}
}

<PRE_DIRECTIVE>
SPECIAL_TOKEN :
{
    <DIRECTIVE_TERMINATOR: ~[] >
    {
        if ( debugPrint )
            System.out.print("DIRECTIVE_TERM :");

        input_stream.backup(1);
        inDirective = false;
        stateStackPop();
    }
}

/**
 * This method is what starts the whole parsing
 * process. After the parsing is complete and
 * the template has been turned into an AST,
 * this method returns the root of AST which
 * can subsequently be traversed by a visitor
 * which implements the ParserVisitor interface
 * which is generated automatically by JavaCC
 */
SimpleNode process() : {/*@bgen(jjtree) process */
    ASTprocess jjtn000 = new ASTprocess(this, JJTPROCESS);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
    {/*@bgen(jjtree) process */
        try {
            /*@egen*/
            ( Statement() ) * <EOF> /*@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn000, true);
                jjtc000 = false;
            }
        }
        /*@egen*/
        { return jjtn000; } /*@bgen(jjtree)*/
}

```

```

} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

/**
 * These are the types of statements that
 * are acceptable in Velocity templates.
 */
void Statement() : {}
{
    IfStatement()
|
    StopStatement()
| LOOKAHEAD(2) Reference()
| Comment()
| SetDirective()
| EscapedDirective()
| Escape()
| Directive()
| Text()
}

/**
 * used to separate the notion of a valid directive that has been
 * escaped, versus something that looks like a directive and
 * is just schmoo. This is important to do as a separate production
 * that creates a node, because we want this, in either case, to stop
 * the further parsing of the Directive() tree.
 */
void EscapedDirective() : {/*@bgen(jjtree) EscapedDirective */

```

```

ASTEscapedDirective jjtn000 = new ASTEscapedDirective(this, JJTESCAPEDIRECTIVE);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
{ /*@bgen(jjtree) EscapedDirective */
    try {
/*@egen*/
        {
            Token t = null;
        }

        t = <ESCAPE_DIRECTIVE>/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
/*@egen*/
        {
            /*
             * churn and
burn..
            */
            t.image = escapedDirective( t.image );
        } /*@bgen(jjtree)*/
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
/*@egen*/
    }
}

/**
 * Used to catch and process escape sequences in grammatical constructs
 * as escapes outside of VTL are just characters. Right now we have both
 * this and the EscapeDirective() construction because in the EscapeDirective()
 * case, we want to suck in the #<directive> and here we don't. We just want
 * the escapes to render correctly
 */
void Escape() : { /*@bgen(jjtree) Escape */
    ASTEscape jjtn000 = new ASTEscape(this, JJTESCAPE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
{ /*@bgen(jjtree) Escape */
    try {
/*@egen*/
        {

```

```

Token t = null;
int count = 0;
boolean control = false;
}

( LOOKAHEAD(2) t = <DOUBLE_ESCAPE>
{
    count++;
}
)+/*@bgen(jjtree)*/
{

jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{
    /*
    * first, check to see if we have a control directive
    */
    switch(t.next.kind ) {
        case IF_DIRECTIVE :
        case ELSE_DIRECTIVE :
        case ELSEIF_DIRECTIVE :
        case END :
        case STOP_DIRECTIVE :
            control = true;
            break;
    }

    /*
    * if that failed, lets lookahead to see if we matched a PD or a VM
    */

    if ( isDirective( t.next.image.substring(1)))
        control = true;
    else if ( rsvc.isVelocimacro( t.next.image.substring(1), currentTemplateName))
        control = true;

    jjtn000.val = "";

    for( int i = 0; i < count; i++)
        jjtn000.val += ( control ? "\"" : "\\\"");
}/*@bgen(jjtree)*/
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}

```

```

    }
    /*@egen*/

}

void
Comment() : {/*@bgen(jjtree) Comment */
    ASTComment jjtn000 = new ASTComment(this, JJTCOMMENT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    {/*@bgen(jjtree) Comment */
        try {
            /*@egen*/
            <SINGLE_LINE_COMMENT_START> ( <SINGLE_LINE_COMMENT> ) ?
            | <MULTI_LINE_COMMENT>
            | <FORMAL_COMMENT>/*@bgen(jjtree)*/
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    }
    /*@egen*/
}

void FloatingPointLiteral() : {/*@bgen(jjtree) FloatingPointLiteral */
    ASTFloatingPointLiteral jjtn000 = new ASTFloatingPointLiteral(this, JJTFLOATINGPOINTLITERAL);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    {/*@bgen(jjtree) FloatingPointLiteral */
        try {
            /*@egen*/
            <FLOATING_POINT_LITERAL>/*@bgen(jjtree)*/
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    }
    /*@egen*/
}

void IntegerLiteral()
: {/*@bgen(jjtree) IntegerLiteral */
    ASTIntegerLiteral jjtn000 = new ASTIntegerLiteral(this, JJTINTEGERLITERAL);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}

```

```

{/*@bgen(jjtree) IntegerLiteral */
  try {
/*@egen*/
  <INTEGER_LITERAL>/*@bgen(jjtree)*/
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

void StringLiteral() : {/*@bgen(jjtree) StringLiteral */
  ASTStringLiteral jjtn000 = new ASTStringLiteral(this, JJTSTRINGLITERAL);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) StringLiteral */
  try {
/*@egen*/
  <STRING_LITERAL>/*@bgen(jjtree)*/
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

/**
 * This method corresponds to variable
 * references in Velocity templates.
 * The following are examples of variable
 * references that may be found in
 * a
 * template:
 *
 * $foo
 * $bar
 *
 */
void Identifier() : {/*@bgen(jjtree) Identifier */
  ASTIdentifier jjtn000 = new ASTIdentifier(this, JJTIDENTIFIER);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) Identifier */
  try {

```

```

/*@egen*/
<IDENTIFIER>/*@bgen(jjtree)*/
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void Word() : {/*@bgen(jjtree) Word */
    ASTWord jjtn000 = new ASTWord(this, JJTWORD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
    {/*@bgen(jjtree) Word */
        try {
            /*@egen*/
            <WORD>/*@bgen(jjtree)*/
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    }
    /*@egen*/
}

/**
 * Supports the arguments for the Pluggable Directives
 */
int DirectiveArg() : {}
{
    Reference()
    {
        return ParserTreeConstants.JJTREFERENCE;
    }
| Word()
    {
        return ParserTreeConstants.JJTWORD;
    }
| StringLiteral()
    {
        return ParserTreeConstants.JJTSTRINGLITERAL;
    }

| IntegerLiteral()
    {
        return ParserTreeConstants.JJTINTEGERLITERAL;
    }
}

```



```

}
/*
 * Need to put this before the floating point expansion
 */
| LOOKAHEAD( <LBRACKET> [<WHITESPACE>] ( Reference() | IntegerLiteral() ) [<WHITESPACE>]
<DOUBLEDOT> ) IntegerRange()
{
    return ParserTreeConstants.JJTINTEGERRANGE;
}
| FloatingPointLiteral()
{
    return ParserTreeConstants.JJTFLOATINGPOINTLITERAL;
}
| Map()
{
    return ParserTreeConstants.JJTMAP;
}
| ObjectArray()
{
    return ParserTreeConstants.JJTOBJECTARRAY;
}
| True()
{
    return ParserTreeConstants.JJTTRUE;
}
| False()
{
    return ParserTreeConstants.JJTFALSE;
}
}

/**
 * Supports the Pluggable Directives
 * #foo( arg+ )
 */
SimpleNode Directive()
:
{ /*@bgen(jjtree) Directive */
    ASTDirective jjtn000 = new ASTDirective(this, JJTDIRECTIVE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
    Token t = null;
    int argType;
    int argPos = 0;
    Directive d;
    int directiveType;
    boolean isVM = false;

```

```

boolean doItNow = false;
}
{/*@bgen(jtree) Directive */
  try {
/*@egen*/

  /*
   * note that if we were escaped, that is now handled by
   * EscapedDirective()
   */

  ((t = <WORD>) | (t = <BRACKETED_WORD>))
  {
    String directiveName;
    if (t.kind == ParserConstants.BRACKETED_WORD)
  {
    directiveName = t.image.substring(2,t.image.length() - 1);
  }
  else
  {
    directiveName = t.image.substring(1);
  }

  d = (Directive) directives.get(directiveName);

  /*
   * Velocimacro support : if the directive is macro directive
   * then set the flag so
after the block parsing, we add the VM
   * right then. (So available if used w/in the current template )
   */

  if (directiveName.equals("macro"))
  {
    doItNow = true;
  }

  /*
   * set the directive name from here. No reason for the thing to know
   * about parser tokens
   */

  jjtn000.setDirectiveName(directiveName);

  if ( d == null)
  {
    /*
     * if null, then not a real directive, but maybe a Velocimacro

```

```

*/

isVM = rsvc.isVelocimacro(directiveName, currentTemplateName);

if (!isVM)
{
    token_source.stateStackPop();
    token_source.inDirective = false;
    return jjtn000;
}

/*
 * Currently, all VMs are LINE directives
 */

directiveType = Directive.LINE;
}
else

{
    directiveType = d.getType();
}

/*
 * now, switch us out of PRE_DIRECTIVE
 */

token_source.SwitchTo(DIRECTIVE);

argPos = 0;
}

/*
 * if this is indeed a token, match the #foo ( arg ) pattern
 */

[<WHITESPACE>] <LPAREN> ( LOOKAHEAD(2) [<WHITESPACE>] [<COMMA> [<WHITESPACE>]]

argType = DirectiveArg()
{
    if (argType == ParserTreeConstants.JJTWORD)
    {
        if (doItNow && argPos == 0)
        {
            /* if a VM and it's the 0th arg... ok */

```

```

        ;
    }
    else if( (t.image.equals("#foreach") || t.image.equals("#{foreach}")) && argPos == 1)
    {
        /* if a foreach and it's the 2nd arg ok */
        ;
    }
    else

{
    throw new MacroParseException("Invalid arg #"
        + argPos + " in "
        + (isVM ? "VM " : "directive ")
        + t.image, currentTemplateName, t);
}
}
else
{
    if (doItNow && argPos == 0)
    {
        /* if a VM and it's the 0th arg, not ok */

        throw new MacroParseException("Invalid first arg"
            + " in #macro() directive - must be a"
            + " word token (no \' or \'\" surrounding)", currentTemplateName, t);
        }
    }

    argPos++;
}

)* [<WHITESPACE>] <RPAREN>
{

    if (directiveType == Directive.LINE)
    {
        return jjtn000;
    }
}/*@bgen(jjtree) Block */
{
    ASTBlock jjtn001
= new ASTBlock(this, JJTBLOCK);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/

```

```

/*
 * and the following block if the PD needs it
 */

( Statement() )+/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
  if (jjtc001) {
    jjtree.clearNodeScope(jjtn001);
    jjtc001 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
  }
  if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
  }
  throw (Error)jjte001;
} finally {
  if (jjtc001) {
    jjtree.closeNodeScope(jjtn001, true);
  }
}
/*@egen*/
<END>/*@bgen(jjtree)*/
{
  jjtree.closeNodeScope(jjtn000, true);
  jjtc000 = false;
}
/*@egen*/
{
  /*
   * VM : if we are processing a #macro directive, we need to
   * process the
block. In truth, I can just register the name
   * and do the work later when init-ing. That would work
   * as long as things were always defined before use. This way
   * we don't have to worry about forward references and such...
   */

  if (doItNow)
  {
    Macro.processAndRegister(rsvc, t, jjtn000, currentTemplateName);
  }

  /*
   * VM : end

```

```

    */

    return jjtn000;
}/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

/**
 * for creating a map in a #set
 *
 * #set($foo = {$foo : $bar, $blargh : $thingy})
 */
void Map() : {/*@bgen(jjtree) Map */
    ASTMap jjtn000 = new ASTMap(this, JJTMAP);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
{/*@bgen(jjtree) Map */
    try {
    /*@egen*/
    <LEFT_CURLEY>
    (
    LOOKAHEAD(2) Parameter() <COLON> Parameter() (<COMMA> Parameter() <COLON> Parameter() )*
    |
    [ <WHITESPACE> ]
    )
    <RIGHT_CURLEY>/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {

```

```

        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000,
true);
    }
}
/*@egen*/
}

void ObjectArray() : {/*@bgen(jjtree) ObjectArray */
ASTObjectArray jjtn000 = new ASTObjectArray(this, JJTOBJECTARRAY);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) ObjectArray */
    try {
/*@egen*/
        <LBRACKET> [ Parameter() ( <COMMA> Parameter() )* ] <RBRACKET>/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
}

```

```

    }
    /*@egen*/
}

/**
 * supports the [n..m] vector generator for use in
 * the #foreach() to generate
 * measured ranges w/o
 * needing explicit support from the app/servlet
 */
void IntegerRange() : {/*@bgen(jjtree) IntegerRange */
    ASTIntegerRange jjtn000 = new ASTIntegerRange(this, JJTINTEGERRANGE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
    {/*@bgen(jjtree) IntegerRange */
        try {
            /*@egen*/
            <LBRACKET> [<WHITESPACE>]
            ( Reference() | IntegerLiteral()
            [<WHITESPACE>] <DOUBLEDOT> [<WHITESPACE>]
            (Reference() | IntegerLiteral()
            [<WHITESPACE>] <RBRACKET>/*@bgen(jjtree)*/
            ) catch (Throwable jjte000) {
                if (jjtc000) {
                    jjtree.clearNodeScope(jjtn000);
                    jjtc000 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte000 instanceof RuntimeException) {
                    throw (RuntimeException)jjte000;
                }
                if (jjte000 instanceof ParseException) {
                    throw (ParseException)jjte000;
                }
                throw (Error)jjte000;
            } finally {
                if (jjtc000) {
                    jjtree.closeNodeScope(jjtn000,
                    true);
                }
            }
        }
    }
    /*@egen*/
}

```



```

/**
 * This method has yet to be fully implemented
 * but will allow arbitrarily nested method
 * calls
 */
void Parameter() : {}
{
    [<WHITESPACE>
    (
        StringLiteral()
        | IntegerLiteral()
        | LOOKAHEAD( <LBRACKET> [<WHITESPACE>] ( Reference() | IntegerLiteral())
    [<WHITESPACE> <DOUBLEDOT> ) IntegerRange()
        | Map()
        | ObjectArray()
        | True()
        | False()
        | Reference()
        | FloatingPointLiteral()
        )
    [<WHITESPACE>]
    }

/**
 * This method has yet to be fully implemented
 * but will allow arbitrarily nested method
 * calls
 */
void Method() : { /*@bgen(jjtree) Method */
    ASTMethod jjtn000 = new ASTMethod(this, JJTMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    { /*@bgen(jjtree) Method */
        try {
            /*@egen*/
            Identifier() <LPAREN> [ Parameter() ( <COMMA> Parameter() )* ] <REFMOD2_RPAREN> /*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {

```

```

        throw (ParseException)jtte000;
    }
    throw (Error)jtte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void Reference() : {/*@bgen(jjtree) Reference */
    ASTReference jjtn000 = new ASTReference(this, JJTREFERENCE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
} {/*@bgen(jjtree) Reference */
    try {
    /*@egen*/
    /*
    * A reference is either ${<FOO>} or $<FOO>
    */

    (
        <IDENTIFIER>
        (LOOKAHEAD(2) <DOT> (LOOKAHEAD(3) Method() | Identifier() ))*
    )
    |
    (
        <LCURLY>

        <IDENTIFIER>
        (LOOKAHEAD(2) <DOT> (LOOKAHEAD(3) Method() | Identifier() ))*
        <RCURLY>
    )
    /*@bgen(jjtree)*/
} catch (Throwable jtte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jtte000 instanceof RuntimeException) {
        throw (RuntimeException)jtte000;
    }
    if (jtte000 instanceof ParseException) {
        throw (ParseException)jtte000;
    }
}
}

```

```

        throw (Error)jite000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
}
/*@egen*/
}

void True() : {/*@bgen(jjtree) True */
    ASTTrue jjtn000 = new ASTTrue(this, JJTRUE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}
/*@bgen(jjtree) True */
    try {
    /*@egen*/
        <TRUE>/*@bgen(jjtree)*/
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000,
true);
        }
    }
}
/*@egen*/
}

void False() : {/*@bgen(jjtree) False */
    ASTFalse jjtn000 = new ASTFalse(this, JJFALSE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}
/*@bgen(jjtree) False */
    try {
    /*@egen*/
        <FALSE>/*@bgen(jjtree)*/
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
}
/*@egen*/
}

/**
 * This method is responsible for allowing
 * all non-grammar text to pass through
 * unscathed.

```

```

*/
void Text() : {/*@bgen(jjtree) Text */
    ASTText jjtn000 = new ASTText(this, JJTEXT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    {/*@bgen(jjtree) Text */
        try {
        /*@egen*/
            <TEXT>
        | <DOT>
        | <RPAREN>
        | <LPAREN>
        | <INTEGER_LITERAL>
        | <FLOATING_POINT_LITERAL>
        | <STRING_LITERAL>
        | <ESCAPE>
        | <LCURLY>
        | <RCURLY>/*@bgen(jjtree)*/
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
        }
    /*@egen*/
}

/* -----
*
* Defined Directive Syntax
*
* -----*/

void IfStatement() : {/*@bgen(jjtree) IfStatement */
    ASTIfStatement jjtn000 = new ASTIfStatement(this, JJIFSTATEMENT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    {/*@bgen(jjtree) IfStatement */
        try {
        /*@egen*/
            <IF_DIRECTIVE> [<WHITESPACE>] <LPAREN> Expression() <RPAREN>/*@bgen(jjtree) Block */
            {
                ASTBlock jjtn001 = new ASTBlock(this, JJTBLOCK);
                boolean jjtc001 = true;
                jjtree.openNodeScope(jjtn001);
            }
        }
    }
}

```

```

/*@egen*/
( Statement() )/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
    }
}
/*@egen*/
[ LOOKAHEAD(1) ( ElseIfStatement() )+ ]
[ LOOKAHEAD(1) ElseStatement() ]
<END>/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void ElseStatement() : {/*@bgen(jjtree) ElseStatement */

```

```

ASTElseStatement jjtn000
= new ASTElseStatement(this, JJTELSESTATEMENT);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
/*@bgen(jjtree) ElseStatement */
try {
/*@egen*/
<ELSE_DIRECTIVE>/*@bgen(jjtree) Block */
{
    ASTBlock jjtn001 = new ASTBlock(this, JJTBLOCK);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/
( Statement() )/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
    }
}
/*@egen*//*@bgen(jjtree)*/
} catch (Throwable jjte000) {

if (jjtc000) {
    jjtree.clearNodeScope(jjtn000);
    jjtc000 = false;
} else {
    jjtree.popNode();
}
if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
}
}

```

```

    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void ElseIfStatement() : {/*@bgen(jjtree) ElseIfStatement */
    ASTElseIfStatement jjtn000 = new ASTElseIfStatement(this, JJTELSEIFSTATEMENT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    {/*@bgen(jjtree) ElseIfStatement */
        try {
            /*@egen*/
            <ELSEIF_DIRECTIVE> [<WHITESPACE>]
            <LPAREN> Expression() <RPAREN>/*@bgen(jjtree) Block */
            {
                ASTBlock jjtn001 = new ASTBlock(this, JJTBLOCK);
                boolean jjtc001 = true;
                jjtree.openNodeScope(jjtn001);
            }
            try {
                /*@egen*/
                ( Statement() )/*@bgen(jjtree)*/
            } catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                }
                if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                }
                throw (Error)jjte001;
            } finally {
                if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001, true);
                }
            }
        }
    }
}

```

```

    }
    /*@egen*/ /*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if
(jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
    /*@egen*/
}

/**
 * Currently support both types of set :
 * #set( expr )
 * #set expr
 */
void SetDirective() : { /*@bgen(jjtree) SetDirective */
    ASTSetDirective jjtn000 = new ASTSetDirective(this, JJTSETDIRECTIVE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    { /*@bgen(jjtree) SetDirective */
        try {
            /*@egen*/
            <SET_DIRECTIVE>>(<[<WHITESPACE>] Reference() [<WHITESPACE>] <EQUALS> Expression()
<RPAREN>
            {
                /*
                 * ensure that inSet is false. Leads to some amusing bugs...
                 */

                token_source.inSet = false;
            }
        }
    }
    [<NEWLINE>] /*@bgen(jjtree)*/

```



```

} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }

    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

/**
 * This method corresponds to the #stop
 * directive which just simulates and EOF
 * so that parsing stops. The #stop directive
 * is useful for end-user debugging
 * purposes.
 */
void StopStatement() : {/*@bgen(jjtree) #Stop( 0) */
    ASTStop jjtn000 = new ASTStop(this, JJTSTOP);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
    {/*@bgen(jjtree) #Stop( 0) */
        try {
            /*@egen*/
            <STOP_DIRECTIVE>/*@bgen(jjtree)*/
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, 0);
            }
        }
    }
    /*@egen*/
}

/* -----

```

```

*
* Expression Syntax
*
* -----*/

void
Expression() : {/*@bgen(jjtree) Expression */
  ASTExpression jjtn000 = new ASTExpression(this, JJTEXPRESSION);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
  /*@egen*/
  {/*@bgen(jjtree) Expression */
  try {
    /*@egen*/
    // LOOKAHEAD( PrimaryExpression() <EQUALS> ) Assignment()
    //|
    ConditionalOrExpression()/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
  /*@egen*/
}

void Assignment() : {/*@bgen(jjtree) #Assignment( 2) */
  ASTAssignment jjtn000 = new ASTAssignment(this, JJTASSIGNMENT);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
  /*@egen*/
  {/*@bgen(jjtree)
  #Assignment( 2) */
  try {
    /*@egen*/

```

```

PrimaryExpression() <EQUALS> Expression()/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, 2);
    }
}
/*@egen*/
}

void ConditionalOrExpression() : {}
{
    ConditionalAndExpression()
    ( <LOGICAL_OR>/*@bgen(jjtree) #OrNode( 2) */
        {
            ASTOrNode jjtn001 = new ASTOrNode(this, JJTORNODE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);

        }

        try {
/*@egen*/ ConditionalAndExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
        }
}

```

```

        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}
/*@egen*/)*
}

```

```

void ConditionalAndExpression() : {}
{
    EqualityExpression()
    (<LOGICAL_AND>/*@bgen(jjtree)
    #AndNode( 2) */
    {
        ASTAndNode jjtn001 = new ASTAndNode(this, JJTANDNODE);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/ EqualityExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,
2);
        }
    }
}
/*@egen*/)*
}

```

```

void EqualityExpression() : {}
{
    RelationalExpression()

```

```

(
  <LOGICAL_EQUALS>/*@bgen(jjtree) #EQNode( 2) */
  {
    ASTEQNode jjtn001 = new ASTEQNode(this, JJTEQNODE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
  }
  try {
/*@egen*/ RelationalExpression()/*@bgen(jjtree)*/
  } catch (Throwable jjte001) {
    if (jjtc001) {
      jjtree.clearNodeScope(jjtn001);
      jjtc001 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
      throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
      throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
  } finally {
    if (jjtc001) {
      jjtree.closeNodeScope(jjtn001, 2);
    }
  }
/*@egen*/
  | <LOGICAL_NOT_EQUALS>/*@bgen(jjtree) #NENode( 2) */
  {
    ASTNENode jjtn002 = new ASTNENode(this, JJTNENODE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
  }
  try {
/*@egen*/ RelationalExpression()/*@bgen(jjtree)*/
  } catch (Throwable jjte002) {
    if (jjtc002) {
      jjtree.clearNodeScope(jjtn002);
      jjtc002 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
      throw (RuntimeException)jjte002;
    }
  }

```

```

        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
}

/*@egen*/
)*
}

void RelationalExpression() : {}
{
    AdditiveExpression()
    (
        <LOGICAL_LT>/*@bgen(jjtree) #LTNode( 2) */
        {

            ASTLTNode jjtn001 = new ASTLTNode(this, JJTLTNode);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ AdditiveExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001)
        {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}

/*@egen*/
| <LOGICAL_GT>/*@bgen(jjtree) #GTNode( 2) */

```

```

        {
            ASTGTNode jjtn002 = new ASTGTNode(this, JJTGTNODE);
            boolean jjtc002 = true;
            jjtree.openNodeScope(jjtn002);
        }
        try {
/*@egen*/ AdditiveExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte002) {
            if (jjtc002) {
                jjtree.clearNodeScope(jjtn002);
                jjtc002 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte002 instanceof RuntimeException) {
                throw (RuntimeException)jjte002;
            }
            if (jjte002 instanceof ParseException)
        {
                throw (ParseException)jjte002;
            }
            throw (Error)jjte002;
        } finally {
            if (jjtc002) {
                jjtree.closeNodeScope(jjtn002, 2);
            }
        }
/*@egen*/
        | <LOGICAL_LE>/*@bgen(jjtree) #LENODE( 2) */
        {
            ASTLENode jjtn003 = new ASTLENode(this, JJTLENODE);
            boolean jjtc003 = true;
            jjtree.openNodeScope(jjtn003);
        }
        try {
/*@egen*/ AdditiveExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte003) {
            if (jjtc003) {
                jjtree.clearNodeScope(jjtn003);
                jjtc003 = false;
            } else {
                jjtree.popNode();
            }
        }
            if (jjte003 instanceof RuntimeException) {
                throw (RuntimeException)jjte003;
            }
            if (jjte003 instanceof ParseException) {

```

```

        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
/*@egen*/
| <LOGICAL_GE>/*@bgen(jjtree) #GENode( 2) */
{
    ASTGENode jjtn004 = new ASTGENode(this, JJTGENODE);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
}
try {
/*@egen*/ AdditiveExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte004) {

    if (jjtc004) {
        jjtree.clearNodeScope(jjtn004);
        jjtc004 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte004 instanceof RuntimeException) {
        throw (RuntimeException)jjte004;
    }
    if (jjte004 instanceof ParseException) {
        throw (ParseException)jjte004;
    }
    throw (Error)jjte004;
} finally {
    if (jjtc004) {
        jjtree.closeNodeScope(jjtn004, 2);
    }
}
/*@egen*/
)*
}

void AdditiveExpression() : {}
{
    MultiplicativeExpression()
(
    <PLUS>/*@bgen(jjtree) #AddNode( 2) */
    {
        ASTAddNode jjtn001 = new ASTAddNode(this,

```



```

JJTADDNODE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/ MultiplicativeExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/
| <MINUS>/*@bgen(jjtree) #SubtractNode( 2)
*/
{
    ASTSubtractNode jjtn002 = new ASTSubtractNode(this, JJTSUBTRACTNODE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ MultiplicativeExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
}

```

```

        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
}
/*@egen*/
)*
}

void MultiplicativeExpression() : {}
{
    UnaryExpression()
    (
        <MULTIPLY>/*@bgen(jjtree) #MulNode( 2) */
        {
            ASTMulNode jjtn001 = new ASTMulNode(this, JJTMULNODE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ UnaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }

            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }
/*@egen*/
    | <DIVIDE>/*@bgen(jjtree) #DivNode( 2) */
    {
        ASTDivNode jjtn002 = new ASTDivNode(this, JJTDIVNODE);
        boolean jjtc002 = true;

```

```

        jjtree.openNodeScope(jjtn002);
    }
    try {
/*@egen*/ UnaryExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
/*@egen*/
    | <MODULUS>/*@bgen(jjtree) #ModNode( 2) */
    {
        ASTModNode jjtn003 = new ASTModNode(this, JJTMODNODE);
        boolean jjtc003 = true;
        jjtree.openNodeScope(jjtn003);
    }
    try {
/*@egen*/ UnaryExpression()/*@bgen(jjtree)*/

    } catch (Throwable jjte003) {
        if (jjtc003) {
            jjtree.clearNodeScope(jjtn003);
            jjtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jjte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
        throw (Error)jjte003;
    } finally {

```

```

        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 2);
        }
    }
}

/*@egen*/
)*
}

void UnaryExpression() : {}
{
    LOOKAHEAD(2) [<WHITESPACE>] <LOGICAL_NOT>/*@bgen(jjtree) #NotNode( 1)
*/
        {
            ASTNotNode jjtn001 = new ASTNotNode(this, JJTNOTNODE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ UnaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }

            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 1);
            }
        }

/*@egen*/
| PrimaryExpression()
}

void PrimaryExpression() : {}
{
    [<WHITESPACE>]
    (
        StringLiteral()

```

```

| Reference()
| IntegerLiteral()
| LOOKAHEAD( <LBRACKET> [<WHITESPACE>] ( Reference() | IntegerLiteral() ) [<WHITESPACE>]
<DOUBLEDOT> ) IntegerRange()
| FloatingPointLiteral()
| Map()
| ObjectArray()
| True()
| False()
| <LPAREN> Expression() <RPAREN>
)
[<WHITESPACE>]
}

```

```

/* =====

```

## Notes

-----

template == the input stream for this parser, contains 'VTL'  
mixed in with 'schmoo'

VTL == Velocity Template Language : the references, directives, etc

schmoo == the non-VTL component of a template

reference == VTL entity that represents data within the context. ex. \$foo

directive == VTL entity that denotes 'action' (#set, #foreach, #if )

defined directive (DD) == VTL directive entity that is expressed  
explicitly w/in this grammar

pluggable directive (PD) == VTL directive entity that is defined outside of the  
grammar. PD's allow VTL to be easily expandable w/o parser modification.

The problem with parsing VTL is that an input stream consists generally of  
little bits of VTL mixed in with 'other stuff, referred to as 'schmoo'.

Unlike other languages, like C or Java, where the parser can punt whenever  
it encounters input that doesn't conform to the grammar, the VTL parser can't do  
that. It must simply output the schmoo and keep going.

There are a few things that we do here :

- define a set of parser states (DEFAULT, DIRECTIVE, REFERENCE, etc)
- define for each parser state a set of tokens for each state
- define the VTL grammar, expressed (mostly) in the productions such as Text(), SetStatement(), etc.

It is clear that this expression of the VTL grammar (the contents of this .jvt file) is maturing and evolving as we learn more about how to parse VTL ( and as I learn about parsing...), so in the event this documentation is in disagreement w/ the source, the source takes precedence. :)

#### Parser States

-----

DEFAULT : This is the base or starting state, and strangely enough, the default state.

PRE\_DIRECTIVE : State immediately following '#' before we figure out which defined or pluggable directive (or neither) we are working with.

DIRECTIVE : This state is triggered by the a match of a DD or a PD.

REFERENCE : Triggered by '\$'. Analogous to PRE\_DIRECTIVE.

REFMODIFIER : Triggered by .<alpha> when in REFERENCE.

REFMOD2 : Triggered by ( when in REFMODIFIER

(cont)

#### Escape Sequences

-----

The escape processing in VTL is very simple. The '\' character acts only as an escape when :

- 1) On or more touch a VTL element.

A VTL element is either :

- 1) It preceeds a reference that is in the context.
  - 2) It preceeds a defined directive (#set, #if, #end, etc)
- or a valid  
pluggable directive, such as #foreach

In all other cases the '\' is just another piece of text. The purpose of this is to allow the non-VTL parts of a template (the 'schmoo') to not have to be altered for processing by Velocity.

So if in the context \$foo and \$bar were defined and \$woogie was not

\\$foo \\$bar \\$woogie

would output

```
$foo $bar \Swoogie
```

Further, you can stack them and they affect left to right, just like convention escape characters in other languages.

```
\$foo = $foo  
\\$foo = \<foo>  
\\\ $foo = \$foo
```

What You Expect

-----  
The recent versions of the parser are trying to support precise output to support general template use. The directives do not render trailing whitespace and newlines if followed by a newline. They will render preceding whitespace. The only exception is #set, which also eats preceding whitespace.

So, with a template :

```
-----  
#set $foo="foo"  
#if($foo)  
  \$foo = $foo  
#end  
-----
```

it will render precisely :

```
-----  
$foo = foo  
-----
```

\*/

Found in path(s):

\* /opt/cola/permits/1000221041\_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/runtime/parser/Parser.jj

## 1.140 objenesis 1.0

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# 1.142 gradle 2.12

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```
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// Version 2.0, in this case for Objenesis  
// -----
```

Objenesis

Copyright 2006-2009 Joe Walnes, Henri Tremblay, Leonardo Mesquita  
package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.\*;

/\*\*

\* An annotation to indicate that the type depends on the MIT License. Applying  
\* this annotation will add a Bundle-License clause.

\*/

@BundleLicense(name = "http://opensource.org/licenses/MIT", link = "http://en.wikipedia.org/wiki/MIT\_License",  
description = "MIT License")

public @interface MIT\_1\_0 { }

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    Version 2.0, January 2004

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```
package aQuote.bnd.annotation.licenses;
```

```
import aQuote.bnd.annotation.headers.*;
```

```
/**
```

```
 * An annotation to indicate that the type depends on the GNU General Public
```

```
 * License 2.0. Applying this annotation will add a Bundle-License clause.
```

```
 */
```

```
@BundleLicense(name = "http://opensource.org/licenses/GPL-2.0", link = "http://www.gnu.org/licenses/gpl-2.0.html", description = "The GNU General Public License version 2 (GPLv2)")
```

```
public @interface GPL_2_0 {
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 z} classNameLjava/lang/String;nameactionStringactionsLjava/util/Set;  
 Signature#Ljava/util/Set<Ljava/lang/String;>;<init>()VCodeLineNumberTableLocalVariableTablethis  
 PermissionInnerClasses3Lorg/apache/tools/ant/types/Permissions\$Permission;setClass(Ljava/lang/String;)VaClassg  
 etClassName(Ljava/lang/String;setNameaNamegetName  
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 getActionsmatches(Ljava/security/Permission;)ZassizeIpermLjava/security/Permission;LocalVariableTypeTablepar  
 seActions#(Ljava/lang/String;)Ljava/util/Set;itemresulttkLjava/util/StringTokenizer;7(Ljava/lang/String;)Ljava/util/  
 Set<Ljava/lang/String;>;toString  
 SourceFilePermissions.java01~=(\*)+)KL,-  
 @=\*B=Fjava/util/HashSetjava/util/StringTokenizer,0=java/lang/StringBuilderPermission: ("",  
 "")R=1org/apache/tools/ant/types/Permissions\$Permissionjava/lang/Objectjava/lang/Stringtrimlength()IgetClass()Lj  
 ava/lang/Class;java/lang/Classequals(Ljava/lang/Object;)ZendsWith(Ljava/lang/String;)Zjava/security/Permission  
 substring(II)Ljava/lang/String;  
 startsWith  
 java/util/Set removeAll(Ljava/util/Collection;)Z'(Ljava/lang/String;Ljava/lang/String;)V  
 hasMoreTokens(Z nextTokenaddappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-  
 (Ljava/lang/Object;)Ljava/lang/StringBuilder;&org/apache/tools/ant/types/Permissions!&'(\*)+),-./  
 012/\*34589:2A \*+3  
 4 58 ;)<=2/\*3458>:2A \*+3  
  
 4 58 ?)@=2/\*3458A:2V\*++\*+3  
 458,)B=2/\*3'458CD2\*+  
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amz-grant-full-control45!'READx-amz-grant-read#"WRITEx-amz-grant-write$"READ_ACPx-amz-grant-read-
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acp&"java/lang/Enumclone()Ljava/lang/Object;5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljava/lang/
String;I)Vjava/lang/Stringequals(Ljava/lang/Object;)Z@ 1
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```

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```

```
import aQute.bnd.annotation.headers.*;
```

```
/**
```

```
* An annotation to indicate that the type depends on the Simplified BSD or  
* FreeBSD License. Applying this annotation will add a Bundle-License clause.
```

```
*/
```

```
@BundleLicense(name = "http://opensource.org/licenses/BSD-2-Clause", link =  
"http://en.wikipedia.org/wiki/BSD_licenses", description = "Simplified BSD or FreeBSD License")
```

```
public @interface BSD_2-Clause {}
```

```
2
```

```
SourceFileGPL_3_0.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name&http://  
opensource.org/licenses/GPL-3.0link(http://www.gnu.org/licenses/gpl-3.0.htmldescription0The GNU General  
Public License version 3
```

```
(GPLv3)%aQute/bnd/annotation/licenses/GPL_3_0java/lang/Objectjava/lang/annotation/Annotation&s
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/*
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```

```
*/
```

```
package aQute.bnd.annotation.licenses;
```

```
import aQute.bnd.annotation.headers.*;
```

/\*\*

\* An annotation to indicate that the type depends on the GNU Lesser Public

\* License 2.1. Applying this annotation will add a Bundle-License clause.

\*/

```
@BundleLicense(name = "http://opensource.org/licenses/LGPL-2.1", link = "http://www.gnu.org/licenses/lgpl-2.1.html", description = "GNU Lesser General Public License, version 2.1")
```

```
public @interface LGPL_2_1 {
```

```
}
```

```
2name()Ljava/lang/String;descriptionAnnotationDefaultlink
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```
SourceFileBundleLicense.javaRuntimeVisibleAnnotations
```

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Ljava/lang/annotation/Retention;value&Ljava/lang/annotation/RetentionPolicy;CLASSLjava/lang/annotation/Target
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;"Ljava/lang/annotation/ElementType;ANNOTATION_TYPERTYPE*aQute/bnd/annotation/headers/BundleLicensej
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ava/lang/Objectjava/lang/annotation/Annotation&s s
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SourceFileMIT_1_0.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name"http://o
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pensource.org/licenses/MITlink(http://en.wikipedia.org/wiki/MIT_LicensedescriptionMIT
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```

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```
2
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```
SourceFileBSD_2_Clause.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name+
```

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package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.\*;

/\*\*

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\*/

@BundleLicense(name = "http://opensource.org/licenses/MPL-2.0", link = "http://www.mozilla.org/MPL/2.0", description = "Mozilla Public License 2.0")

public @interface MPL\_2\_0 { }

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LGPL\_2\_1.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name'<http://opensource.org/licenses/LGPL-2.1>link)<http://www.gnu.org/licenses/lgpl-2.1.html>description.GNU Lesser General Public

License, version 2.1&aQute/bnd/annotation/licenses/LGPL\_2\_1java/lang/Objectjava/lang/annotation/Annotation&ss

2

SourceFileCPL\_1\_0.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation/headers/BundleLicense;name)<http://opensource.org/licenses/cpl1.0.php>link5<http://www.ibm.com/developerworks/library/os-cpl.html>descriptionaims of

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public @interface ASL\_2\_0 { }

}

xml-commons/java/external/README.sax.txt \$Id: README.sax.txt 225954 2002-01-31 23:26:48Z curcuru \$

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\* license processing required by many organizations like for example license  
\* acceptance before a bundle is used. The header is structured to provide the  
\* use of unique license naming to merge acceptance requests, as well as links  
\* to human readable information about the included licenses. This header is  
\* purely informational for management agents and must not be processed by the  
\* OSGi Framework.

\* <p>

\* The syntax for this header is as follows:

\*

\* <pre>

\* Bundle-License ::= <<EXTERNAL>> |

\* ( license ( , license ) \* )

\* license ::= name ( ; license-attr ) \*

```

* license-attr ::= description | link
* description ::= description = string
* link ::= link = <url>
* </pre>
*
* This
header has the following attributes:
* <ul>
* <li>name Provides a globally unique name for this license, preferably world
* wide, but it should at least be unique with respect to the other clauses. The
* magic name <<EXTERNAL>> is used to indicate that this artifact does not
* contain any license information but that licensing information is provided in
* some other way. This is also the default contents of this header.
* <li>Clients of this bundle can assume that licenses with the same name refer
* to the same license. This can for example be used to minimize the click
* through licenses. This name should be the canonical URL of the license, it
* must not be localized by the translator. This URL does not have to exist but
* must not be used for later versions of the license. It is recommended to use
* URLs from <a href="http://opensource.org/">Open Source Initiative</a>. Other
* licenses should use the following structure, but this is not mandated:
*
* <pre>
* http://<domain-name>/licenses/
* <license-name>-<version>.<extension>
* </pre>
* <li>description (optional) Provide the description of the license. This is
* a short description that is usable in a list box on a UI to select more
* information about the license.
* <li>link (optional) Provide a URL to a page that defines or explains the
* license. If this link is absent, the name field is used for this purpose. The
* URL is relative to the root of the bundle. That is, it is possible to refer
* to a file inside the bundle.
* </ul>
* If the Bundle-License statement is absent, then this does not mean that the
* bundle is not licensed. Licensing could be handled outside the bundle and the
* {@code <<EXTERNAL>>} form should be assumed. This header is informational and
* may not have any legal bearing. Consult a lawyer before using this header to
* automate licensing processing.
* <p>
* A number of licenses have been predefined, {@link ASL_2_0},
* {@link BSD_2-Clause},
* {@link BSD_3-Clause}, {@link CDDL_1_0}, {@link EPL_1_0}, {@link GPL_2_0}, {@link GPL_3_0}, {@link
* LGPL_2_1}, {@link MIT_1_0},
* {@link MPL_2_0}.
* /
@Retention(RetentionPolicy.CLASS)
@Target({

```

```

ElementType.ANNOTATION_TYPE, ElementType.TYPE
})
public @interface BundleLicense {
/**
 * The name of the license, should refer to <a
 * href="http://opensource.org">Open Source Initiative</a>
 */
String name();

/**
 * A short description of the license
 */
String description() default "";

/**
 * A URI to the license text. This maybe relative, in that case it is from
 * the corresponding bundle.
 */
String link() default "";
}
version 1.0

```

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```

=====
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== the Apache License, Version 2.0,                    ==
== in this case for the Gradle distribution.            ==
=====

```

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It includes the following other software:

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SLF4J (<http://www.slf4j.org>)  
JUnit (<http://www.junit.org>)  
JCIFS (<http://jcifs.samba.org>)

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xml-commons/java/external/README.dom.txt \$Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas \$

HEAR YE, HEAR YE!

All of the .java software and associated documentation about the DOM in this repository are distributed under the license from the W3C, which is provided herein.

LICENSE.dom-software.txt covers all software from the W3C including the following items in the xml-commons project:

xml-commons/java/external/src/org/w3c  
and all subdirectories

(Note: SAC (The Simple API for CSS) has been published under an older version of the W3C license. The original license file is LICENSE.sac.html.)

LICENSE.dom-documentation.txt covers all documentation from the W3C including the following items in the xml-commons project:

xml-commons/java/external/xdocs/dom  
and all subdirectories

The actual DOM Java Language Binding classes in xml-commons came from:

<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html>

The specification of DOM Level 3's various parts is at:

<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/>  
<http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/>  
<http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/>

The specification of DOM Level 2's various parts is at:

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>

The specification of DOM Level 1's various parts is at:

<http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html>

Links to all available W3C DOM Java Bindings can be found at:

<http://www.w3.org/DOM/DOMTR>



The actual classes of The Simple API for CSS (SAC) came from:

<http://www.w3.org/Style/CSS/SAC/>

<http://www.w3.org/2002/06/sacjava-1.3.zip>

The actual DOM Java Language Binding

classes for SMIL came from:

<http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/>

(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:

<http://www.w3.org/TR/SVG11/java.html>

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java/io/PrintStreamjava/lang/Objectjava/lang/StringBuilderjava/lang/SystemlicenseTextline.separatormainorg/bouncycastle/LICENSEoutportions of the Software.println\$subject to the following

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tedExceptionput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;java/util/Listadd(Ljava/lang/Object;)Zad  
dAll(Ljava/util/Collection;)Z(Ljava/util/Map;)VgetClass()Ljava/lang/Class;java/lang/Classappend-  
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString initCause,(Ljava/lang/Throwable;)Ljava/lang/Throwable;  
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,-CDE/0hKA>*+"B
67CDE30iKA>*+#B
@ACDE40jkA>*+B
KLCDE:;lmAP*+B
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Development and Distribution License
1.0&aQute/bnd/annotation/licenses/CDDL_1_0java/lang/Objectjava/lang/annotation/Annotation&s
ss
package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the Common Public
 * License 1.0. Applying this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/cpl1.0.php", link =
"http://www.ibm.com/developerworks/library/os-cpl.html", description = "aims of supporting and encouraging
collaborative open-source development while still retaining the ability to use the CPL'd content with software
licensed under other licenses, including many proprietary licenses.")
public @interface CPL_1_0 {

}

package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*;

```

```

/**
 * An annotation to indicate that the type depends on the Revised BSD License.
 * Applying this annotation will add a Bundle-License clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/BSD-3-Clause", link =
"http://en.wikipedia.org/wiki/BSD_licenses", description = "Revised BSD License")
public @interface BSD_3-Clause {}
/*
$Id: LICENSE.txt,v 1.5 2006/02/05 21:49:04 elharo Exp $

```

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```

*/
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import aQute.bnd.annotation.headers.*;

```

```

/**
 * An annotation to indicate that the type depends on the GNU General Public

```

\* License 3.0. Applying this annotation will add a Bundle-License clause.

\*/

```
@BundleLicense(name = "http://opensource.org/licenses/GPL-3.0", link = "http://www.gnu.org/licenses/gpl-3.0.html", description = "The GNU General Public License version 3 (GPLv3)")
```

```
public @interface GPL_3_0 { }
```

```
package aQute.bnd.annotation.licenses;
```

```
import aQute.bnd.annotation.headers.*;
```

```
/**
```

```
* An annotation to indicate that the type depends on the Common Development and
```

```
* Distribution license. Applying this annotation will add a Bundle-License
```

```
* clause.
```

```
*/
```

```
@BundleLicense(name = "http://opensource.org/licenses/CDDL-1.0", link =
```

```
"http://en.wikipedia.org/wiki/Common_Development_and_Distribution_License", description = "Common  
Development and Distribution License 1.0")
```

```
public @interface CDDL_1_0 { }
```

```
=====  
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== distribution. ==  
=====
```

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```

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```

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```

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```
package aQute.bnd.annotation.licenses;
```

```
import aQute.bnd.annotation.headers.*;
```

```
/**
```

```
* An annotation to indicate that the type depends on the Eclipse Public  
* License 1.0. Applying this annotation will add a Bundle-License clause.  
*/
```

```
@BundleLicense(name = "http://opensource.org/licenses/EPL-1.0", link = "http://www.eclipse.org/legal/epl-v10.html", description = "Eclipse Public License 1.0")
```

```
public @interface EPL_1_0 {}
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```

Exceptionsk

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2000-05-05

## 1.143 doxia-module-apt 1.0

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## 1.144 lambdaj 2.3.3

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```

Found in path(s):

```
* /opt/cola/permits/1000522418_1646171478.7/0/lambdaj-2-3-3-sources-  
jar/ch/lambdaj/function/matcher/NotNullOrEmptyMatcher.java
```

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- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/argument/InvocationException.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/argument/ArgumentConversionException.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/Invokable.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/argument/InvocationSequence.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/Closure0.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/compare/ComparatorUtil.java
- \*
- /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/matcher/AndMatcher.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/Sum.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/collection/LambdaMap.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/Max.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/compare/PropertyComparator.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/collection/LambdaSet.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/matcher/HasArgumentWithValue.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/group/GroupItem.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/util/iterator/IteratorFactory.java
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- /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/Closure.java
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- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/Lambda.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/ClosureResult.java
- \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/collection/AbstractLambdaCollection.java

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 \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/util/iterator/MatchingIterator.java  
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 \*  
 /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/util/NotUniqueItemException.java  
 \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/Aggregator.java  
 \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/argument/ProxyArgument.java  
 \* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/util/iterator/ResettableIterator.java

\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/Closure3.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/ChooserOnArgument.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/util/IntrospectionUtil.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/group/ArgumentGroupCondition.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/argument/ArgumentsFactory.java  
\*  
/opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/ProxyAggregator.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/convert/DefaultStringConverter.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/group/Groups.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/Closure1.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/matcher/LambdaJMatcher.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/convert/ConverterIterator.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/MinOnArgument.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/DelayedClosure.java  
\*  
/opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/convert/PropertyExtractor.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/MaxOnArgument.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/aggregate/SumDouble.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/Switcher.java  
\* /opt/cola/permits/1000522418\_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/group/StringGroupCondition.java

## 1.145 jsoup 1.6.1

## 1.146 generex 1.0.2

## 1.146.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
jar/com/mifmif/common/regex/GenerexIterator.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
jar/com/mifmif/common/regex/Generex.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
jar/com/mifmif/common/regex/Node.java
*
/opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
jar/com/mifmif/common/regex/util/Iterator.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
jar/com/mifmif/common/regex/Main.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
jar/com/mifmif/common/regex/util/Iterable.java
```

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.github.mifmif</groupId>
  <artifactId>generex</artifactId>
  <version>1.0.2</version>
  <name>Generex</name>
  <url>https://github.com/mifmif/Generex/tree/master</url>
  <description>Generex A Java Library for regex to Strings generation</description>
  <packaging>jar</packaging>
  <licenses>
```

```

<license>
  <name>The Apache Software License, Version 2.0</name>
  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
</license>
</licenses>
<developers>
  <developer>
    <id>mifmif</id>
    <name>MIFRAH Youssef</name>
    <email>mifmif.com@gmail.com</email>
  </developer>
  <developer>
    <id>mkolisnyk</id>
    <name>mkolisnyk</name>
    <email>kolesnik.nickolay@gmail.com</email>
  </developer>
</developers>

<parent>
  <groupId>org.sonatype.oss</groupId>
  <artifactId>oss-parent</artifactId>
  <version>7</version>
</parent>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <maven.pmd.excludes>*/generated-sources/*</maven.pmd.excludes>
</properties>
<scm>
  <connection>scm:git:git@github.com:mifmif/Generex.git</connection>
  <developerConnection>scm:git:git@github.com:mifmif/Generex.git</developerConnection>
  <url>https://github.com/mifmif/Generex.git</url>
</scm>
<ciManagement>
  <url>https://travis-ci.org/mifmif/Generex/builds</url>
  <system>Travis</system>
  <notifiers>
    <notifier>
      <address>mifmif.com@gmail.com</address>
      <type>mail</type>
    </notifier>
    <notifier>
      <address>kolesnik.nickolay@gmail.com</address>
      <type>mail</type>
    </notifier>
  </notifiers>
</ciManagement>

```



```
<distributionManagement>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
  <repository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
  </repository>
</distributionManagement>
```

```
<build>
  <sourceDirectory>src/main/java</sourceDirectory>
  <testSourceDirectory>src/test/java</testSourceDirectory>
  <resources>
    <resource>
      <directory>src</directory>
      <excludes>
        <exclude>**/*.java</exclude>
      </excludes>
    </resource>
    <resource>
      <directory>target/dependency</directory>
      <excludes>
        <exclude>**/*.java</exclude>
      </excludes>
    </resource>
    <resource>
      <directory>src/main/resources</directory>
      <includes>
        <include>**/*.properties</include>
      </includes>
    </resource>
  </resources>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-install-plugin</artifactId>
      <version>2.5.2</version>
      <configuration>
        <file>target/${project.artifactId}-${project.version}.jar</file>
        <groupId>${project.groupId}</groupId>
        <artifactId>${project.artifactId}</artifactId>
        <version>${project.version}</version>
        <packaging>maven-plugin</packaging>
      </configuration>
    </plugin>
  </plugins>
</build>
```

</plugin>

<plugin>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.5.1</version>

<configuration>

<source>1.5</source>

<target>1.5</target>

</configuration>

</plugin>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-jar-plugin</artifactId>

<version>3.0.2</version>

<configuration>

<excludes>

<exclude>\*</exclude>

<exclude>com/thoughtworks/\*\*/\*</exclude>

<exclude>freemarker/\*\*/\*</exclude>

<exclude>ftl/\*\*/\*</exclude>

<exclude>i18n/\*\*/\*</exclude>

<exclude>style/\*\*/\*</exclude>

<exclude>junit/\*\*/\*</exclude>

<exclude>licenses/\*\*/\*</exclude>

<exclude>META-INF/maven/\*\*/\*</exclude>

<exclude>org/codehaus/\*\*/\*</exclude>

<exclude>org/hamcrest/\*\*/\*</exclude>

<exclude>org/jbehave/\*\*/\*</exclude>

<exclude>org/junit/\*\*/\*</exclude>

<exclude>org/testng/\*\*/\*</exclude>

<exclude>org/xmlpull/\*\*/\*</exclude>

<exclude>stories/\*\*/\*</exclude>

<exclude>style/\*\*/\*</exclude>

<exclude>tests/\*\*/\*</exclude>

</excludes>

<archive>

<manifest>

<addClasspath>>false</addClasspath>

<addDefaultImplementationEntries>>true</addDefaultImplementationEntries>

<addDefaultSpecificationEntries>>true</addDefaultSpecificationEntries>

<addExtensions>>false</addExtensions>

<classpathLayoutType>simple</classpathLayoutType>

</manifest>

</archive>

</configuration>

</plugin>

<plugin>

<artifactId>maven-assembly-plugin</artifactId>

```

<version>2.6</version>
<configuration>
  <descriptors>
    <descriptor>./sources.xml</descriptor>
  </descriptors>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-dependency-plugin</artifactId>
  <version>2.10</version>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>2.10.3</version>
  <configuration>
    <show>private</show>
    <nohelp>>false</nohelp>
    <failOnError>>false</failOnError>
    <sourcepath>src/main/java</sourcepath>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-release-plugin</artifactId>
  <configuration>
    <tagNameFormat>v@ { project.version }</tagNameFormat>
    <preparationGoals>package
install:install-file</preparationGoals>
    <scmCommentPrefix>#3</scmCommentPrefix>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-deploy-plugin</artifactId>
  <version>2.8.2</version>
  <configuration>
    <skip>>true</skip>
  </configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.0.1</version>
  <executions>

```

```
<execution>
  <goals>
    <goal>jar-no-fork</goal>
  </goals>
</execution>
</executions>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>deploy</phase>
      <goals>
        <goal>sign</goal>
      </goals>
    </execution>
  </executions>
```

```
</plugin>
```

```
<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.3</version>
  <executions>
    <execution>
      <id>default-deploy</id>
      <phase>deploy</phase>
```

```

    <goals>
      <goal>deploy</goal>
    </goals>
  </execution>
</executions>
<extensions>true</extensions>
<configuration>
  <serverId>ossrh</serverId>
  <nexusUrl>https://oss.sonatype.org/</nexusUrl>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-pmd-plugin</artifactId>
  <version>3.6</version>
  <configuration>
    <failOnViolation>true</failOnViolation>
    <excludeRoots>
      <excludeRoot>target/generated-sources/plugin</excludeRoot>
    </excludeRoots>
    <excludes>
      <exclude>*/HelpMojo.java</exclude>
    </excludes>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
        <goal>cpd-check</goal>
      </goals>
      <configuration>
        <failOnViolation>true</failOnViolation>
        <excludes>
          <exclude>*/HelpMojo.java</exclude>
        </excludes>
      </configuration>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-checkstyle-plugin</artifactId>
  <version>2.10</version>
  <configuration>
    <excludes>*/test/java/**/*.*.java</excludes>
    <configLocation>./sun_checks.xml</configLocation>
    <suppressionsLocation>./checkstyle-suppressions.xml</suppressionsLocation>
    <failOnViolation>true</failOnViolation>

```

```

</configuration>
<executions>
  <execution>
    <goals>
      <goal>check</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>cobertura-maven-plugin</artifactId>
  <version>2.6</version>
  <configuration>
    <check>
      <haltOnFailure>>false</haltOnFailure>
      <totalBranchRate>80</totalBranchRate>
      <totalLineRate>80</totalLineRate>
      <packageLineRate>80</packageLineRate>
      <packageBranchRate>80</packageBranchRate>
    </check>
    <instrumentation>
      <excludes>
        <exclude>*/HelpMojo.class</exclude>
      </excludes>
    </instrumentation>
  </configuration>
<executions>
  <execution>
    <id>verification</id>
    <phase>verify</phase>
    <goals>
      <goal>check</goal>
      <goal>cobertura</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>javancss-maven-plugin</artifactId>
  <version>2.0</version>
  <configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <ccnLimit>15</ccnLimit>
    <nccsLimit>100</nccsLimit>
    <failOnViolation>>true</failOnViolation>
    <excludes>

```

```

    <exclude>**/tests/**/*.*</exclude>
  </excludes>
</configuration>
<executions>
  <execution>
    <goals>
      <goal>check</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>findbugs-maven-plugin</artifactId>
  <version>3.0.1</version>
  <configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <failOnError>>true</failOnError>
    <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>jdepend-maven-plugin</artifactId>
  <version>2.0</version>
</plugin>
</plugins>
</build>
<dependencies>
  <dependency>
    <groupId>dk.brics.automaton</groupId>
    <artifactId>automaton</artifactId>
    <version>1.11-8</version>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>
    <scope>test</scope>
  </dependency>
  <dependency>

```

```
<groupId>org.hamcrest</groupId>
<artifactId>hamcrest-junit</artifactId>
<version>2.0.0.0</version>
<scope>test</scope>
</dependency>
</dependencies>
</project>
```

Found

in path(s):

\* /opt/cola/permits/1000610466\_1606952086.17/0/generex-1-0-2-sources-1-jar/META-INF/maven/com.github.mifmif/generex/pom.xml

## 1.147 jsr250-api 1.0

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Version 1.0

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## 1.152 jackson 2.9.9

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## 1.154 httpasyncclient 4.1.3

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 */
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Found in path(s):

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

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Date: 8 January 2007

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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loohVQIICsparvjHMQuwqwCgiZFy

LBDVaad1bJ1v1EHY901kPcg=

=6rqm

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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgaq9Frj/CIrIRAmuJAKCFgi4W0UOH8IU<sub>n</sub>+SV6PBHRF3BnLgCcDqqC

Zokttk0bTHfwaa5TtxQbScw=

=N/w/

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Date: 2012-07-17

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Version: GnuPG v1.4.10 (GNU/Linux)

iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl

RUKfJzAPZaLDtDMfiDz7ucdRL1RDodmz4VIF2+fbKeBYQuZXfXIEghz+tKriK3  
0M12guFkNLDteQp9h2p3Zu9JU3K0y4m84IDWq72HRmhInRyD6lzZFhDGZ/D+69fF  
tgYG0FwEit00MAq/lRbsXHLpBOY+Jyh/Xy+QRnQTcAQ+tAgOlxds3w+JSs2sGdes  
YLAJQQacLeGh7EzD3F+CKuiwT4c5ub64LdXSIAVj1u2OjZBfqLaJ3FA60Ti+I3kn  
FNWKpzaeX+SQgMak6hsuatXi6EsVk6sIaskwEgl6+Xk+HYWY23ZQ8BKQRLKOZTw=  
=gAqN

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E-Mail: [jstrachan@apache.org](mailto:jstrachan@apache.org)

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Date: January 30th 2006

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv  
8sfMxEDZquIqhVbfZU2c76U=  
=8WW7

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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVtJExGJjUvKgCfaKji  
6etDJ6AUj0jTuS159hUsWMQ=  
=HmqH

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Full name: Julian Anthony Fox Gosnell

E-Mail: `jules@coredevelopers.net`

Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Version: GnuPG v1.4.2.1 (GNU/Linux)

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Corporation name: Simula Labs, Inc.

Mailing Address: 4676 Admiralty Way, Suite 520  
Marina Del Rey, CA 90292

Point of Contact:

Full name: Gordon King

E-Mail: gordon.king@simulalabs.com

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name	Date added
Simone Bordet	12 September 2006
_____	_____
_____	_____

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<meta name="Originator" content="Microsoft Word 9">
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<div class="Section1">

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</p>

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this Agreement, and<br clear="left">
b) in the case of each subsequent Contributor:</span></p>

<p class="MsoNormal" style="margin-left: 0.5in;"><span style="font-size: 10pt;">i)
changes to the Program, and</span></p>

<p class="MsoNormal" style="margin-left: 0.5in;"><span style="font-size: 10pt;">ii)

```

additions to the Program;

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</div>

<div class="Section2">

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Version 2.0, January 2004<br/>

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</p>

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<p><span

style="font-size: 10pt;">

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<p><b><span

style="font-size: 10pt;">

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</span></b></p>

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style="font-size: 10pt;">

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<p><span style="font-size: 10pt;">

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</span></p>

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-----BEGIN PGP SIGNED MESSAGE-----

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Full name: David Jencks

E-Mail: david\_jencks@yahoo.com

Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Date: 27 June 2008

Please sign: David Jencks

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Version: GnuPG v1.4.7 (Darwin)

iD8DBQFIZT2ToF6+5lbz4BsRAs3wAJ9puXC26Nr8nhFvTZ9oNwxDFV/DVACgnC8O

VFUWPZrfLOJesKa0/rYNJIM=

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5hdry6ZjXRcUhQEyNz2F/T4=  
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- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

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

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Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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\* /opt/cola/permits/1000738325\_1607697711.63/0/jetty-continuation-9-4-11-v20180605-sources-1-jar/org/eclipse/jetty/continuation/ContinuationListener.java  
\* /opt/cola/permits/1000738325\_1607697711.63/0/jetty-continuation-9-4-11-v20180605-sources-1-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java  
\* /opt/cola/permits/1000738325\_1607697711.63/0/jetty-continuation-9-4-11-v20180605-sources-1-jar/org/eclipse/jetty/continuation/Continuation.java  
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\*  
/opt/cola/permits/1000738325\_1607697711.63/0/jetty-continuation-9-4-11-v20180605-sources-1-jar/org/eclipse/jetty/continuation/ContinuationFilter.java  
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\* /opt/cola/permits/1000738325\_1607697711.63/0/jetty-continuation-9-4-11-v20180605-sources-1-jar/org/eclipse/jetty/continuation/ContinuationSupport.java

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\* /opt/cola/permits/1000738325\_1607697711.63/0/jetty-continuation-9-4-11-v20180605-sources-1-jar/about.html

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java  
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# 1.166 jersey-guava 2.25.1

## 1.167 hk2-api 2.5.0

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\* /opt/cola/permits/1000738731\_1646171490.77/0/jline-0-9-94-sources-jar/jline/ANSIBuffer.java

```

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/Completor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReader.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/MultiCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/SimpleCompletor.java
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jar/jline/CandidateCycleCompletionHandler.java
*
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jar/jline/CandidateListCompletionHandler.java
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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/UnixTerminal.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReaderInputStream.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CompletionHandler.java
*
/opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleRunner.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/NullCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/FileNameCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleOperations.java

```

## 1.170 hk2-utils 2.5.0

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\* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-  
 jar/org/jvnet/tiger\_types/WildcardTypeImpl.java  
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 jar/org/jvnet/tiger\_types/TypeVisitor.java  
 \* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/Lister.java  
 \* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/Types.java  
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- \* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/GenericArrayTypeImpl.java

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```
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```

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## 1.178 heimdal 7.5.0+dfsg-1

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@table

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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@item HDB LDAP backend.

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AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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## 1.180 keyutils 1.5.9-9.2ubuntu2

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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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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## 1.182 icu 60.2-3ubuntu3

### 1.182.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>ICU License - moved to LICENSE</title>
</head>
```

```

<body BGCOLOR="#ffffff">
<p>
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  Update links and software appropriately.
</p>
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</body>
</html>
## -*-makefile-*-
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation

```

```

rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*\^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*\^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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```



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# 1.183 oro 2.0.8

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jar/org/apache/oro/text/regex/PatternMatcher.java

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/\*  
\* \$Id: QuestionNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: AwkMatchResult.java,v 1.8 2003/11/07 20:16:24 dfs Exp \$

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jar/org/apache/oro/text/awk/AwkMatchResult.java

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/\*\*  
\* Determines if the contents of a PatternMatcherInput, starting from the  
\* current offset of the input contains a pattern.  
\* If a pattern match is found, a MatchResult  
\* instance representing the <b>first</b> such match is made accessible via  
\* {@link #getMatch()}. The current offset of the  
\* PatternMatcherInput is set to the offset corresponding to the end  
\* of the match, so that a subsequent call to this method will continue  
\* searching where the last call left off. You should remember that the  
\* region between the begin and end offsets of the PatternMatcherInput are

\* considered the input to be searched, and that the current offset  
\* of the PatternMatcherInput reflects where a search will start from.  
\* Matches extending beyond the end offset of the PatternMatcherInput  
\* will not be matched. In other words, a match must occur entirely  
\* between the begin and end offsets of the input. See  
\* { @link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput }  
\* for more details.

\* <p>

\* As a side effect, if a match is found, the PatternMatcherInput match  
\* offset information is updated. See

the PatternMatcherInput

\* { @link org.apache.oro.text.regex.PatternMatcherInput#setMatchOffsets  
\* setMatchOffsets(int, int) } method for more details.

\* <p>

\* The pattern must be an AwkPattern instance, otherwise a  
\* ClassCastException will be thrown. You are not required to, and  
\* indeed should NOT try to (for performance reasons), catch a  
\* ClassCastException because it will never be thrown as long as you use  
\* an AwkPattern as the pattern parameter.

\* <p>

\* This method is usually used in a loop as follows:

\* <blockquote><pre>

\* PatternMatcher matcher;

\* PatternCompiler compiler;

\* Pattern pattern;

\* PatternMatcherInput input;

\* MatchResult result;

\*

\* compiler = new AwkCompiler();

\* matcher = new AwkMatcher();

\*

\* try {

\* pattern = compiler.compile(somePatternString);

\* } catch(MalformedPatternException e) {

\* System.err.println("Bad pattern.");

\* System.err.println(e.getMessage());

\* return;

\* }

\*

\* input = new PatternMatcherInput(someStringInput);

\*

\* while(matcher.contains(input, pattern)) {

\* result = matcher.getMatch();

\* // Perform whatever processing on the result you want.

\* }

\*

\* </pre></blockquote>

\* <p>

\* @param input The PatternMatcherInput to test for a match.  
\* @param pattern The Pattern to be matched.  
\* @return True if the input contains a pattern match, false otherwise.  
\* @exception ClassCastException If a Pattern instance other than an  
\* AwkPattern is passed as the pattern parameter.  
\*/

Found in path(s):

\* /opt/cola/permits/1000740375\_1646171523.75/0/oro-2-0-8-sources-jar/org/apache/oro/text/awk/AwkMatcher.java

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\* \$Id: GenericCacheEntry.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: Perl5Compiler.java,v 1.21 2003/11/07 20:16:25 dfs Exp \$

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* $Id: PatternCacheFIFO.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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jar/org/apache/oro/text/regex/Perl5MatchResult.java
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/*
* $Id: GenericPatternCache.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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\* \$Id: streamInputExample.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: NegativeCharacterClassNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: CharStringPointer.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: matchesContainsExample.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: CacheRandom.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: substituteExample.java,v 1.9 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: PatternCompiler.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: CharacterClassNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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jar/org/apache/oro/text/awk/CharacterClassNode.java

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\* \$Id: MalformedPerl5PatternException.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: LeafNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$  
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\* \$Id: MatchResult.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: MatchAction.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: prefixExample.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$



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\* \$Id: matchResultExample.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: didNotMatch.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$

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* $Id: strings.java,v 1.3 2003/08/12 18:11:30 dfs Exp $
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\* \$Id: Perl5Matcher.java,v 1.27 2003/11/07 20:16:25 dfs Exp \$

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jar/org/apache/oro/text/regex/Perl5Matcher.java

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\* \$Id: EpsilonNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: AwkStreamInput.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: jdfix.java,v 1.8 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: PatternCacheRandom.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: PlusNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: Cache.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: AwkCompiler.java,v 1.10 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: Perl5Util.java,v 1.19 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: printPasswd.java,v 1.8 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: MalformedCachePatternException.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: Substitution.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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jar/org/apache/oro/text/regex/Perl5Repetition.java

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\* \$Id: OpCode.java,v 1.11 2003/11/07 20:16:25 dfs Exp \$

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 jar/org/apache/oro/io/RegexFilenameFilter.java

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\* \$Id: MatchActionInfo.java,v 1.8 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: CatNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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/*
* $Id: PatternCache.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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\* \$Id: GlobFilenameFilter.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$

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Upstream-Contact: Anibal Monsalve Salazar <[anibal@debian.org](mailto:anibal@debian.org)>

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## 1.191 base-passwd 3.5.44

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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# Don't put empty lines into this file!
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#
builds/unix/pkg.m4
#
docs/FTL.TXT
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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
```

```
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
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DAMAGE.

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H:Oed 18uyMQ9|FO6

87I8.mhGl^eb\_X/UQKuB

)Cdk!B\_M/tw|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d

;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d

;\*!;\_>KfBqxYm+sS|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d

;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d;\*!;\_>KfBqxY(F|0.Ve%Q?

\*sS|11np#\_(~\*u7gi}[IgiYZ

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Written by: Philip Hazel  
Email local part: ph10  
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 */
```

Found in path(s):

```
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/FactoryFinder.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
```

jar/javax/ws/rs/core/Request.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/GET.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/MatrixParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/OPTIONS.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriInfo.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/RuntimeDelegate.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/CookieParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/MessageBodyReader.java  
\*  
/opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/HEAD.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/NewCookie.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriBuilder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/POST.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DefaultValue.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ApplicationPath.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DELETE.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/package-info.java  
\*  
/opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Application.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/QueryParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PathParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PUT.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Cookie.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Variant.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Consumes.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/FactoryFinder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/HttpHeaders.java  
\*

/opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/FormParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/EntityTag.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Produces.java

## 1.204 jersey-server 2.25.1

## 1.205 jersey-client 2.25.1

## 1.206 jersey-container-servlet-core 2.25.1

## 1.207 jersey-container-servlet 2.25.1

## 1.208 javax-el 3.0.0

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# 1.210 jersey-media-jaxb 2.25.1

# 1.211 libpsl 0.19.1-5build1

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psl-make-dafsa and lookup\_string\_in\_fixed\_set.c.

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```

## 1.212 jetty-setuid-java 1.0.3

## 1.213 junit 3.8.1

## 1.214 jackson-annotations 2.8.0

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## 1.215 gson 2.7

# 1.216 libjpeg 6b

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README for release 6b of 27-Mar-1998  
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### DOCUMENTATION ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

install.doc     How to configure and install the IJG software.  
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,

rdjpgcom, and wrjpgcom.

\*.1            Unix-style man pages for programs (same info as usage.doc).  
wizard.doc    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal documentation:

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

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

It appears that the arithmetic coding option of the JPEG spec is covered by

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

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

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## REFERENCES

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

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

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T

Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG



sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

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

The JPEG standard itself is not available electronically; you must order a

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

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

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

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

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

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

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

## ARCHIVE LOCATIONS

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

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

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

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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/packages/NetPBM/>. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

## FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

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

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

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

TO DO

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

# 1.217 doxia-sink-api 1.0

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## 1.218 simpleclient 0.6.0

## 1.219 maven-repository-metadata 2.0.9

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## 1.221 maven-model 2.0.9

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// -----
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```
/*
```

```
* $Id$
```

```
*/
```

```
package org.apache.maven.model;
```

```
/**
```

```
*
```

```
*
```

\* Describes the licenses for this project. This is used  
\* to generate  
\* the license page of the project's web site, as well as  
\* being taken into  
\* consideration in other reporting and validation. The  
\* licenses listed for  
\* the project are that of the project itself, and not of  
\* dependencies.

\*  
\*  
\*

\* @version \$Revision\$ \$Date\$  
\*/

```
public class License implements java.io.Serializable {
```

```
    //-----/  
    //- Class/Member Variables -/  
    //-----/
```

```
    /**  
     * Field name  
     */  
    private String name;
```

```
    /**  
     * Field url  
     */  
    private String url;
```

```
    /**  
     * Field distribution  
     */  
    private String distribution;
```

```
    /**  
     * Field comments  
     */  
    private String comments;
```

```
    //-----/  
    //- Methods -/  
    //-----/
```

```
    /**  
     * Get  
     * Addendum information pertaining to this license.
```

```

*
*/
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get
 *
 * The primary method by which this project may be
 * distributed.
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>manual</dt>
 * <dd>user must manually download and install
 * the dependency.</dd>
 * </dl>
 *
 */
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 * Get
 *
 * The full legal name of the license.
 *
 */
public String
getName()
{
    return this.name;
} //-- String getName()

/**
 * Get
 *
 * The official url for the license text.
 *
 */

```

```

public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set
 *     Addendum information pertaining to this license.
 *
 *
 * @param comments
 */
public void setComments(String comments)
{
    this.comments = comments;
} //-- void setComments(String)

/**
 * Set
 *
 *     The primary method by which this project may be
 * distributed.
 *     <dl>
 *         <dt>repo</dt>
 *         <dd>may be downloaded from the Maven
 * repository</dd>
 *         <dt>manual</dt>
 *         <dd>user must manually download and install
 * the dependency.</dd>
 *     </dl>
 *
 *
 *
 * @param distribution
 */
public void setDistribution(String distribution)
{
    this.distribution = distribution;
} //-- void setDistribution(String)

/**
 * Set
 *
 *     The full legal name of the license.
 *
 *
 *
 * @param name

```

```

*/
public void setName(String name)
{
    this.name = name;
} //-- void setName(String)

/**
 * Set
 *
 *      The official url for the license text.
 *
 *
 *
 * @param url
 */
public void setUrl(String url)
{
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding )
{
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding()
{
    return modelEncoding;
}}
/*
 * $Id$
 */

package org.apache.maven.model;

/**
 *
 *      Description of a person who has contributed to the
 * project, but
 *      who does not have commit privileges. Usually, these
 *      contributions come in the form of patches submitted.
 *
 *
 * @version $Revision$ $Date$

```

```
*/
public class Contributor implements java.io.Serializable {

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
     * Field name
     */
    private String name;

    /**
     * Field email
     */
    private String email;

    /**
     * Field url
     */
    private String url;

    /**
     * Field organization
     */
    private String organization;

    /**
     * Field organizationUrl
     */
    private String organizationUrl;

    /**
     * Field roles
     */
    private java.util.List roles;

    /**
     * Field timezone
     */
    private String timezone;

    /**
     * Field properties
     */
    private java.util.Properties properties;
```

```

//-----/
//- Methods -/
//-----/

/**
 * Method addProperty
 *
 * @param key
 * @param value
 */
public void addProperty(String key, String value)
{
    getProperties().put( key, value );
} //-- void addProperty(String, String)

/**
 * Method addRole
 *
 * @param string
 */
public void addRole(String string)
{
    getRoles().add( string );
} //-- void addRole(String)

/**
 * Get
 *
 * The email address of the contributor.
 *
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
 * Get
 *
 * The full name of the contributor.
 *
 */
public String getName()
{
    return this.name;
}

```

```

} //-- String getName()

/**
 * Get
 *
 *      The organization to which the contributor
 * belongs.
 *
 *
 */
public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
 * Get
 *
 *      The URL of the organization.
 *
 *
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties
 */
public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles
 */
public java.util.List getRoles()
{
    if ( this.roles == null )
    {
        this.roles = new java.util.ArrayList();
    }
}

```



```

    }

    return this.roles;
} //-- java.util.List getRoles()

/**
 * Get
 *
 * The timezone the contributor is in. This is a
 * number in the range -11 to 12.
 *
 */
public String getTimezone()
{
    return this.timezone;
} //-- String getTimezone()

/**
 * Get
 *
 * The URL for the homepage of the contributor.
 *
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Method removeRole
 *
 * @param string
 */
public void removeRole(String string)
{
    getRoles().remove( string );
} //-- void removeRole(String)

/**
 * Set
 *
 * The email address of the contributor.
 *
 */

```

```

* @param email
*/
public void setEmail(String email)
{
    this.email = email;
} //-- void setEmail(String)

/**
 * Set
 *
 *     The full name of the contributor.
 *
 *
 *
 * @param name
 */
public void setName(String name)
{
    this.name = name;
} //-- void setName(String)

/**
 * Set
 *
 *     The organization to which the contributor
 * belongs.
 *
 *
 *
 * @param organization
 */
public void setOrganization(String organization)
{
    this.organization = organization;
} //-- void setOrganization(String)

/**
 * Set
 *
 *     The
URL of the organization.
 *
 *
 *
 * @param organizationUrl
 */
public void setOrganizationUrl(String organizationUrl)
{

```

```

    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl(String)

/**
 * Set
 *
 * Properties about the contributor, such as an
 * instant messenger handle.
 *
 *
 * @param properties
 */
public void setProperties(java.util.Properties properties)
{
    this.properties = properties;
} //-- void setProperties(java.util.Properties)

/**
 * Set
 *
 * The roles the contributor plays in the project.
 * Each role is
 * described by a <code>role</code> element, the
 * body of which is a
 * role name. This can also be used to describe the
 * contribution.
 *
 *
 * @param roles
 */
public void setRoles(java.util.List roles)
{
    this.roles = roles;
} //-- void setRoles(java.util.List)

/**
 * Set
 *
 * The timezone the contributor is in. This is a
 * number in the range -11 to 12.
 *
 *
 * @param timezone
 */

```

```

public void setTimezone(String timezone)
{
    this.timezone = timezone;
} //-- void setTimezone(String)

/**
 * Set
 *
 *     The URL for the homepage of the contributor.
 *
 *
 * @param url
 */
public void setUrl(String url)
{
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding )
{
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding()
{
    return modelEncoding;
}}

```

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## 1.224 maven-settings 2.0.9

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# 1.228 wagon-provider-api 1.0-beta-2

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## 1.229 maven-reporting-api 2.0.9

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# 1.232 maven-project 2.0.9

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\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/context/DefaultContext.java

\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/configuration/processor/ConfigurationProcessingException.java

\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/manager/ClassicSingletonComponentManager.java  
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/opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/lifecycle/DefaultLifecycleHandlerManager.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/composition/DefaultCompositionResolver.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluationException.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/AbstractComponentConfigurator.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/SimplePlexusContainerManager.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluator.java  
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/opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/FloatConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/DoubleConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/configuration/processor/FileConfigurationResourceHandler.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/IntConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/ShortConverter.java  
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/opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/UrlConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/manager/DefaultComponentManagerManager.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/StringConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/BasicComponentConfigurator.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/composite/PlexusConfigurationConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/configuration/processor/ConfigurationProcessor.java  
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/opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/composite/MapConverter.java  
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\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/FileConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/repository/io/PlexusTools.java

\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/manager/PerLookupComponentManager.java  
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/opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/AbstractBasicConverter.java  
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\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/PlexusContainerHost.java  
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\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/repository/DefaultComponentRepository.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/composition/DefaultComponentComposerManager.java  
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/opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/DateConverter.java  
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\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/embed/Embedder.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/composition/SetterComponentComposer.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/lifecycle/PassiveLifecycleHandler.java  
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/opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/discovery/DefaultComponentDiscoverer.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/StringBufferConverter.java  
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\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/configuration/xml/XmlPlexusConfiguration.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/configuration/processor/ConfigurationResourceNotFoundException.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/composition/FieldComponentComposer.java  
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\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/configuration/PlexusConfigurationMerger.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/converters/basic/LongConverter.java  
\* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/expression/DefaultExpressionEvaluator.java

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* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
jar/org/codehaus/plexus/configuration/processor/ConfigurationResourceHandler.java
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/opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
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* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
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* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
jar/org/codehaus/plexus/configuration/processor/DirectoryConfigurationResourceHandler.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
jar/org/codehaus/plexus/DefaultPlexusContainer.java
*
/opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
jar/org/codehaus/plexus/lifecycle/BasicLifecycleHandler.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
jar/org/codehaus/plexus/PlexusTestCase.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
jar/org/codehaus/plexus/component/configurator/converters/ConfigurationConverter.java
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- \* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/logging/Logger.java
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- /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/configuration/PlexusConfiguration.java
- \* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/context/Context.java
- \* /opt/cola/permits/1000749951\_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/context/ContextException.java
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# 1.234 simpleclient-hotspot 0.6.0

## 1.235 geronimo-annotation-spec 1.1.1

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## 1.240 jopt-simple 5.0.3

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- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/util/InetAddressConverter.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Reflection.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/RequiredArgumentOptionSpec.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/IllegalOptionSpecificationException.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Messages.java
- \*
- /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionParser.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionSpecTokenizer.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Classes.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/ReflectionException.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
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- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/AlternativeLongOptionSpec.java
- \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/OptionNameMap.java

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/opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/util/DateConverter.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionDescriptor.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/AbstractOptionSpec.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionalArgumentOptionSpec.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/UnconfiguredOptionException.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/BuiltinHelpFormatter.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/AbbreviationMap.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Rows.java  
\*  
/opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/MultipleArgumentsForOptionException.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/ValueConversionException.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/NonOptionArgumentSpec.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionException.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionArgumentConversionException.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/ParserRules.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/MissingRequiredOptionsException.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/HelpFormatter.java  
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\*  
/opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionParserState.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Row.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionSpecBuilder.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/ArgumentList.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/util/KeyValuePair.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionSet.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Columns.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/UnrecognizedOptionException.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Strings.java  
\*  
/opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/ArgumentAcceptingOptionSpec.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/util/RegexMatcher.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/NoArgumentOptionSpec.java  
\* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-

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 */
/**
 * A registry for service provider objects.
 * <p/>
 * Service providers are looked up from the classpath, under the path
 * { @code META-INF/services/}&lt;full-class-name&gt;.
 * <p/>
 * For example:<br/>
 * { @code META-INF/services/com.company.package.spi.MyService}.
 * <p/>
 * The file should contain a list of fully-qualified concrete class names,
```

\*  
 one per line.  
 \* <p/>  
 \* The <em>full-class-name</em> represents an interface or (typically) an  
 \* abstract class, and is the same class used as the category for this registry.  
 \* Note that only one instance of a concrete subclass may be registered with a  
 \* specific category at a time.  
 \* <p/>  
 \* <small>Implementation detail: This class is a clean room implementation of  
 \* a service registry and does not use the proprietary { @code sun.misc.Service }  
 \* class that is referred to in the <em>JAR File specification</em>.  
 \* This class should work on any Java platform.  
 \* </small>  
 \*  
 \* @author <a href="mailto:harald.kuhr@gmail.com">Harald Kuhr</a>  
 \* @version \$Id: com/twelvemonkeys/util/service/ServiceRegistry.java#2 \$  
 \* @see RegisterableService  
 \* @see <a href="http://java.sun.com/j2se/1.3/docs/guide/jar/jar.html#Service%20Provider">JAR File  
 Specification</a>  
 \*/

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 jar/com/twelvemonkeys/util/service/ServiceRegistry.java

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jar/com/twelvemonkeys/util/LRUMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/convert/pacakge\_info.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/NullMap.java  
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/opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/LinkedList.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
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\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
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\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
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\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/service/ServiceConfigurationError.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/WeakWeakMap.java  
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jar/com/twelvemonkeys/lang/ReflectUtil.java  
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jar/com/twelvemonkeys/lang/package\_info.java  
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jar/com/twelvemonkeys/lang/Platform.java  
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jar/com/twelvemonkeys/util/convert/NumberConverter.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/service/RegisterableService.java



\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/Converter.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/MissingTypeException.java  
\*  
/opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/PropertyConverter.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/regex/package\_info.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/TokenIterator.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/lang/StringUtil.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/IgnoreCaseMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/regex/WildcardStringParser.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/LRUHashMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/AbstractTokenIterator.java  
\*  
/opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/lang/BeanUtil.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/DuplicateHandler.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/NoAvailableConverterException.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/TimeFormat.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/DateConverter.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/AbstractDecoratedMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/lang/SystemUtil.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/ExpiringMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/service/package\_info.java  
\*  
/opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/LinkedMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/BeanMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/Time.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-

jar/com/twelvemonkeys/util/convert/TimeConverter.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/convert/TypeMismatchException.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/convert/ConverterImpl.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/TimeoutMap.java  
\* /opt/cola/permits/1000760692\_1646171562.79/0/common-lang-3-4-sources-  
jar/com/twelvemonkeys/util/CollectionUtil.java  
\*  
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jar/com/twelvemonkeys/util/convert/DefaultConverter.java  
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jar/com/twelvemonkeys/lang/Validate.java

# 1.242 commons-lang3 3.5

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## 1.244 gson 2.8.2

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/opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldNamingStrategy.java  
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\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Expose.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParseException.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonDeserializer.java  
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jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
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jar/com/google/gson/TypeAdapterFactory.java
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Found in path(s):

```
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/LazilyParsedNumber.java
```

```
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/UnsafeAllocator.java
```

```
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
```

```
*
```

```
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/ConstructorConstructor.java
```

```
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
```

jar/com/google/gson/internal/bind/DateTypeAdapter.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-  
jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-  
jar/com/google/gson/internal/bind/TimeTypeAdapter.java  
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Found in path(s):

\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-  
jar/com/google/gson/LongSerializationPolicy.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonStreamParser.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldAttributes.java  
\*  
/opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParser.java  
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Found in path(s):

\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonWriter.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/MalformedJsonException.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonScope.java  
\*  
/opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonToken.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonReader.java  
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Found in path(s):

\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSyntaxException.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Streams.java

## 1.245 jaxb-api 2.3.0

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\* /opt/cola/permits/1000764441\_1606951833.06/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/impl/LogKitLogger.java

\* /opt/cola/permits/1000764441\_1606951833.06/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/impl/SimpleLog.java

\*

/opt/cola/permits/1000764441\_1606951833.06/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/Log.java

\* /opt/cola/permits/1000764441\_1606951833.06/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

\* /opt/cola/permits/1000764441\_1606951833.06/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/impl/NoOpLog.java

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\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/SoundexUtils.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/Decoder.java  
\*  
/opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/URLCodec.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/QCodec.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/DoubleMetaphone.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/DecoderException.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/StringDecoder.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/RefinedSoundex.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/QuotedPrintableCodec.java  
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/opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/binary/Hex.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/BinaryDecoder.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/EncoderException.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/StringEncodings.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/Soundex.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/Encoder.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/StringEncoderComparator.java  
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\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/BCodec.java

\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/BinaryEncoder.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/binary/Base64.java  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/Metaphone.java  
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Found in path(s):

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\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/package.html  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/package.html  
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/opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/overview.html  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/binary/package.html  
\* /opt/cola/permits/1000764348\_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/digest/package.html

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## 1.251 argparse 0.8.1

## 1.252 concurrent 1.1.0.v20130327-1442

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## 1.254 commons-beanutils 1.8.3

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\* /opt/cola/permits/1000764300\_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/package.html  
\*  
/opt/cola/permits/1000764300\_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/util/package.html  
\* /opt/cola/permits/1000764300\_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/digester-rules.xml

# 1.258 commons-cli 1.1

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## 1.259 commons-logging 1.1

## 1.260 simpleclient-jetty 0.6.0

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## 1.263 logging-interceptor 2.7.5

## 1.264 commons-logging 1.0.4

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\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/AvalonLogger.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/LogConfigurationException.java

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/opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/NoOpLog.java

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\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/SimpleLog.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/Jdk14Logger.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/LogFactory.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/Log4JCategoryLog.java

\*

/opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/LogFactoryImpl.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/Log.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/impl/LogKitLogger.java

\* /opt/cola/permits/1000772257\_1646171506.3/0/commons-logging-1-0-4-sources-jar/org/apache/commons/logging/LogSource.java

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- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/Codec.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/UTF8Buffer.java
- \*
- /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VarSignedLongCodec.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/DataByteArrayOutputStream.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/BufferInputStream.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/BufferCodec.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/DataByteArrayInputStream.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VarLongCodec.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VariableCodec.java
- \* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/IntegerCodec.java
- \*

/opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/ByteArrayInputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/StringCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/UTF8BufferCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/AsciiBufferCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VarIntegerCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/VarSignedIntegerCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/BufferOutputStream.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/AbstractBufferCodec.java  
\* /opt/cola/permits/1000773954\_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/FixedBufferCodec.java

## 1.271 xalan 2.7.2

## 1.272 curl 7.58.0-2ubuntu3.7

### 1.272.1 Available under license :

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## 1.273 javax-el-api 3.0.0

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## 1.277 json-simple 1.1.1

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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/AbstractStreamingHashFunction.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/AbstractHasher.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/BloomFilterStrategies.java

\*

/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/reflect/Types.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/RemovalListener.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/math/DoubleUtils.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/Weigher.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/LoadingCache.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/CacheBuilderSpec.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Absent.java  
 \*  
 /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/HttpHeaders.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/BloomFilter.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/RegularContiguousSet.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/CacheStats.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/FunctionalEquivalence.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/Cache.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/Murmur3\_128HashFunction.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java  
 \*  
 /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Enums.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/FutureCallback.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/TreeRangeSet.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/PrimitiveSink.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Optional.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/UnsignedInteger.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AsyncFunction.java  
 \*  
 /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/math/BigIntegerMath.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/ForwardingCache.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/AbstractCache.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/package-info.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/RegularImmutableMultiset.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/Hasher.java  
 \* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/math/IntMath.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/UnsignedInts.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/math/package-info.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/MediaType.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Queues.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/HashingOutputStream.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/UnsignedLong.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/Funnel.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/HashFunction.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/HashCode.java  
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```
*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/base/SmallCharMatcher.java
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```
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jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/math/Quantiles.java
*
/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/eventbus/SubscriberRegistry.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/MultimapBuilder.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
*
```

/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/RowSortedTable.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/SortedMapDifference.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/Resources.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/EventBus.java

\*

/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/Flushables.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Interners.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/Files.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Objects.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/AsyncEventBus.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/LineReader.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractFuture.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/package-info.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/FinalizableWeakReference.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Defaults.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Preconditions.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Predicates.java  
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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/CountingInputStream.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/LittleEndianDataInputStream.java  
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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/CharStreams.java

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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Throwables.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/EnumMultiset.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/package-info.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/FinalizableSoftReference.java  
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```
*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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*/
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```

```
*/
/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
 *
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 * Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
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```

Found in path(s):

```
*/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/MoreExecutors.java
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```

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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/graph/Graph.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/graph/Graphs.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/graph/MutableGraph.java

\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/graph/Network.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/graph/ImmutableGraph.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/graph/ImmutableNetwork.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/TopKSelector.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/graph/MutableNetwork.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/MultitransformedIterator.java

\*

/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/CommonPattern.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/PatternCompiler.java

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jar/com/google/common/eventbus/SubscriberExceptionContext.java  
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jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/FilteredMultimapValues.java  
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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/AbstractTable.java  
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jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Utf8.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/RegularImmutableSet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java  
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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingSet.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/MapConstraints.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/EnumBiMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingSortedSet.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/SingletonImmutableSet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Multisets.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/EnumHashBiMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/TreeMultimap.java

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jar/com/google/common/collect/TreeMultiset.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ComparatorOrdering.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/SortedSetMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/NullsFirstOrdering.java  
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jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/package-

info.java

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-

jar/com/google/common/collect/SortedLists.java

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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-

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

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-

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

\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-

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

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

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/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/annotations/package-info.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ContiguousSet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/package-info.java

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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-

jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/TimeLimiter.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/io/PatternFilenameFilter.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/annotations/VisibleForTesting.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/reflect/Reflection.java

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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/net/HostSpecifier.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/cache/CacheBuilder.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/MapMaker.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/io/ByteArrayDataInput.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/escape/Platform.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/primitives/SignedBytes.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-



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jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/net/InternetDomainName.java
*
/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Cut.java
*
/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/UriEscapers.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/AbstractIdleService.java
*
/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/LineProcessor.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap
class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/Striped.java

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```

* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/GwtTransient.java

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```
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/ValueGraphBuilder.java
*
/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/ConfigurableMutableNetwork.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/MapIteratorCache.java
*
/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
```

jar/com/google/common/graph/MultiEdgesConnecting.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/ConfigurableMutableGraph.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/DirectedGraphConnections.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/MapRetrievalCache.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/UndirectedNetworkConnections.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/ValueGraph.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/ElementOrder.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/ConfigurableMutableValueGraph.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/DirectedNetworkConnections.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/ConfigurableValueGraph.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/ImmutableValueGraph.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/EndpointPair.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/NetworkBuilder.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/AbstractGraph.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/ConfigurableNetwork.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/NetworkConnections.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
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express
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* the License.
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/UnmodifiableIterator.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
```

jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/SingletonImmutableBiMap.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/PeekingIterator.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/Collections2.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/Platform.java  
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jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
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jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableBiMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableMapValues.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Tables.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Range.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/Serialization.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/CollectPreconditions.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-

jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/ImmutableMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/RegularImmutableBiMap.java  
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jar/com/google/common/collect/SortedMultiset.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-  
jar/com/google/common/collect/SortedMultisets.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/RangeSet.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/Count.java  
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\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/AllEqualOrdering.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingNavigableMap.java



\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/BinaryTreeTraverser.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/RangeMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/DescendingMultiset.java  
\*  
/opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1000875368\_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java

```
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/ForwardingImmutableList.java
*
/opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
jar/com/google/common/collect/ForwardingNavigableSet.java
```

## 1.282 jackson-jaxrs-base 2.9.5

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## 1.283 asm 4.1

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/\*\*

\* Creates a new JSRInliner. *<i>Subclasses must not use this  
\* constructor</i>. Instead, they must use the  
\* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}\* version.*

\*

\* @param mv

\*

the `MethodVisitor` to send the resulting inlined

\* method code to (use `null` for none).

\* @param access

\* the method's access flags (see { @link Opcodes}). This  
\* parameter also indicates if the method is synthetic and/or  
\* deprecated.

\* @param name

\* the method's name.

\* @param desc

\* the method's descriptor (see { @link Type}).

\* @param signature

\* the method's signature. May be `null`.

\* @param exceptions

\* the internal names of the method's exception classes (see  
\* { @link Type#getInternalName() getInternalName}). May be  
\* `null`.

\*/

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\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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- \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/package.html
- \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/commons/package.html
- \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/util/package.html
- \*
  - \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/package.html
  - \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/signature/package.html
  - \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/attrs/package.html

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\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/xml/ASMContentHandler.java  
\*  
/opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/xml/SAXCodeAdapter.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/xml/SAXClassAdapter.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/xml/SAXFieldAdapter.java  
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```
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 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 * version.
 */
```

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```
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```

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```
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* /opt/cola/permits/1000875375_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1000875375_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/AnnotationWriter.java
*
```

/opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Attribute.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/Shrinker.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/FieldNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/JarOptimizer.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Handler.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/signature/SignatureWriter.java  
\*  
/opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/util/TraceFieldVisitor.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/IntInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/Constant.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Handle.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/ClassVisitor.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/util/Printer.java  
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/opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/signature/SignatureReader.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/LabelNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/MethodVisitor.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/MethodInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/InnerClassNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
\*  
/opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Item.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/InsnNode.java  
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 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/util/ASMifier.java  
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 jar/org/objectweb/asm/optimizer/ConstantPool.java  
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 /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/optimizer/NameMapping.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/analysis/BasicValue.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/FieldVisitor.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Type.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Opcodes.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/SimpleRemapper.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/MethodWriter.java  
 \*  
 /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Edge.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/InstructionAdapter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/util/TraceMethodVisitor.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/util/CheckAnnotationAdapter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/MethodNode.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/commons/Method.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/ByteVector.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
 \*  
 /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/analysis/SourceValue.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/FieldWriter.java  
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 jar/org/objectweb/asm/tree/analysis/Subroutine.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-

jar/org/objectweb/asm/commons/Remapper.java  
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 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Label.java  
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 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/signature/SignatureVisitor.java  
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 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/optimizer/ClassOptimizer.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/TableSwitchInsnNode.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
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 /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/StaticInitMerger.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/analysis/SmallSet.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/analysis/Value.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
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 jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
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 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/tree/AnnotationNode.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-  
 jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java  
 \* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-

jar/org/objectweb/asm/tree/LocalVariableNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/VarInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Frame.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
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\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/InsnList.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/Context.java  
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\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/shrink-frames.properties  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties  
\*  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/shrink-resize.properties  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/shrink.properties  
\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/optimizer/shrink-annotations.properties

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\*/

/\*\*

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

Found in path(s):

\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/ClassNode.java

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\*/

/\*\*

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

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

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

\* version.

\*

\* @param mv

\* the

method visitor to which this adapter delegates calls.

- \* @param access
- \*       the method's access flags (see { @link Opcodes}).
- \* @param name
- \*       the method's name.
- \* @param desc
- \*       the method's descriptor (see { @link Type Type}).
- \*/

Found in path(s):

\* /opt/cola/permits/1000875375\_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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- \*/
- /\*\*
- \* Creates a new { @link AnalyzerAdapter}. *Subclasses must not use this*
- \* constructor*.* Instead, they must use the
- \* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}

```

* version.
*
* @param owner
*
    the owner's class name.
* @param access
*     the method's access flags (see { @link Opcodes }).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type Type }).
* @param mv
*     the method visitor to which this adapter delegates calls. May
*     be <tt>null</tt>.
*/

```

Found in path(s):

```

* /opt/cola/permits/1000875375_1646171531.03/0/asm-4-1-sources-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

```

# 1.284 net-tools 1.60+git20161116.90da8a0-1ubuntu1

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=====

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\*/

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

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

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

```
typedef unsigned int nfds_t;
```

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



```

#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

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

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))

```

```

#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

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

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

#ifdef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifdef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

## 1.289 debconf 1.5.66

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## 1.290 apt 1.6.8

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it
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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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## 1.291 sqlite 3.22.0-1

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<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="sqlite.css" rel="stylesheet">
<title>SQLite Copyright</title>
<!-- path= -->
</head>
<body>
<div class=nosearch>
<a href="index.html">

</a>
```

```

<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='about.html'>About</a>
<li class='desktoponly'><a href="docs.html">Documentation</a>
<li class='desktoponly'><a href="download.html">Download</a>
<li class='wideonly'><a href='copyright.html'>License</a>
<li
class='desktoponly'><a href="support.html">Support</a>
<li class='desktoponly'><a href="prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='about.html'>About</a>
<li><a href='docs.html'>Documentation</a>
<li><a href='download.html'>Download</a>
<li><a href='support.html'>Support</a>
<li><a href='prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">
</form>
</div>
</div>
<script>
function toggle_div(nm) {
var w = document.getElementById(nm);
if( w.style.display=="block" ){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
}

```

```

function
toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}
function div_off(nm){ document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){ div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none' ){
x.style.display = 'none';
b.innerHTML='show';
}else{
x.style.display = "";
b.innerHTML='hide';
}
return false;
}
</script>
</div>

```

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</div>

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</p>

<ul>

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</ul>

<p>

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</p>

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<p>

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</p>

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<p>

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SQLite

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<html>

<title>SQLite Copyright Release Template</title>

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Copyright Release for<br>

Contributions To SQLite

</h1>

<p>

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# 1.292 linux-atm 2.5.1-2build1

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\*

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## 1.296 python-setuptools 39.0.1-2

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From dso/aix/dso.c:

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From  
strings/apr\_snprintf.c:

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```

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```
* /opt/cola/permits/1000890787_1651084425.87/0/plexus-component-annotations-1-5-5-sources-
jar/org/codehaus/plexus/component/annotations/Requirement.java
* /opt/cola/permits/1000890787_1651084425.87/0/plexus-component-annotations-1-5-5-sources-
jar/org/codehaus/plexus/component/annotations/Component.java
*
/opt/cola/permits/1000890787_1651084425.87/0/plexus-component-annotations-1-5-5-sources-
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```

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```
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/RetainedWith.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
*
/opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/ObjectiveCName.java
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```
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/WeakOuter.java
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# 1.309 cal10n 0.8.1

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## 1.310 junit 4.11

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```
* /opt/cola/permits/1000966140_1646171560.29/0/junit-4-11-sources-jar/org/junit/runners/model/MultipleFailureException.java
```

## 1.311 google-collections 1.0

## 1.312 jackson-dataformat-yaml 2.9.5

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```
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```

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## 1.313 javax-el 2.2.6

## 1.314 maven-error-diagnostics 2.0.6

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Maven Error Diagnostics

# 1.315 maven-common-artifact-filters 1.4

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## 1.319 maven-plugin-api 2.2.1

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## 1.322 plexus-utils 3.1.0

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## 1.326 maven-plugin-registry 2.2.1

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## 1.331 plexus-compiler-api 2.2

# 1.332 maven-artifact 2.2.1

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@SuppressWarnings( "all" )
public class License
implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
    * The full legal name of the license.
    */
    private String name;

    /**
    * The official url for the license text.
    */
    private String url;

    /**
    *
    * The primary method by which this project may be
    * distributed.
    * <dl>
    * <dt>repo</dt>
    * <dd>may be downloaded from the Maven
    * repository</dd>
    * <dt>>manual</dt>
    * <dd>user must manually download and install
    * the dependency.</dd>
    * </dl>
    *
    *
    */
    private String distribution;

    /**
    * Addendum information pertaining to this license.
    */
    private String comments;

```

```

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;

//-----/
// Methods -/
//-----/

/**
 * Method clone.
 *
 * @return License
 */
public License clone()
{
    try
    {
        License copy = (License) super.clone();

        if ( copy.locations != null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
            + " does not support clone()" ).initCause( ex );
    }
} //-- License clone()

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be
 * distributed.

```

```

*      <dl>
*      <dt>repo</dt>
*      <dd>may be downloaded from the Maven
* repository</dd>

*      <dt>manual</dt>
*      <dd>user must manually download and install
* the dependency.</dd>
*      </dl>
*
* @return String
*/
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

```

```

/**
 * Set addendum information
pertaining to this license.
 *
 * @param comments
 */
public void setComments( String comments )
{
    this.comments = comments;
} //-- void setComments( String )

/**
 * Set the primary method by which this project may be
 * distributed.
 *
 * <dl>
 *     <dt>repo</dt>
 *     <dd>may be downloaded from the Maven
 * repository</dd>
 *
 *     <dt>manual</dt>
 *     <dd>user must manually download and install
 * the dependency.</dd>
 *
 * </dl>
 *
 * @param distribution
 */
public void setDistribution( String distribution )
{
    this.distribution = distribution;
} //-- void setDistribution( String )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {

        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
        this.locations.put( key, location );
    }
} //-- void setLocation( Object, InputLocation )

```

```

/**
 * Set the full legal name of the license.
 *
 * @param name
 */
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the official url for the license text.
 *
 * @param url
 */
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )
}

```

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Maven Model

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\*/

package org.apache.maven.model;

/\*\*

\* Description of a person who has contributed to the project, but  
\* who does not have  
\* commit privileges. Usually, these contributions come in  
\* the form of patches submitted.

\*

\* @version \$Revision\$ \$Date\$

\*/

@SuppressWarnings( "all" )

public class Contributor

implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker

{

//-----/

//- Class/Member Variables -/

//-----/

/\*\*

\* The full name of the contributor.

\*/

private String name;

/\*\*

\* The email address of the contributor.

\*/

private String email;

/\*\*

\* The URL for the homepage  
of the contributor.

\*/

private String url;

/\*\*

\* The organization to which the contributor belongs.

\*/

private String organization;

/\*\*

\* The URL of the organization.

\*/

```

private String organizationUrl;

/**
 * Field roles.
 */
private java.util.List<String> roles;

/**
 * The timezone the contributor is in. This is a number in the
 * range -11 to 12.
 */
private String timezone;

/**
 * Field properties.
 */
private java.util.Properties properties;

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;

//-----/
// Methods -/
//-----/

/**
 * Method addProperty.
 *
 * @param key
 * @param value
 */
public void addProperty( String key, String value )
{
    getProperties().put( key, value );
} //-- void addProperty( String, String
)

/**
 * Method addRole.
 *
 * @param string
 */
public void addRole( String string )
{
    getRoles().add( string );
}

```

```

} //-- void addRole( String )

/**
 * Method clone.
 *
 * @return Contributor
 */
public Contributor clone()
{
    try
    {
        Contributor copy = (Contributor) super.clone();

        if ( this.roles != null )
        {
            copy.roles = new java.util.ArrayList<String>();
            copy.roles.addAll( this.roles );
        }

        if ( this.properties != null )
        {
            copy.properties = (java.util.Properties) this.properties.clone();
        }

        if ( copy.locations != null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
            + " does not support clone()" ).initCause( ex );
    }
} //-- Contributor clone()

/**
 * Get the email address of the contributor.
 *
 * @return String
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()

```

```

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
 * Get the full name of the contributor.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the organization to which the contributor belongs.
 *
 * @return String
 */
public String
getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
 * Get the URL of the organization.
 *
 * @return String
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties.
 *
 * @return Properties
 */

```



```

public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles.
 *
 * @return List
 */
public java.util.List<String> getRoles()
{
    if ( this.roles == null )
    {
        this.roles = new java.util.ArrayList<String>();
    }

    return this.roles;
} //-- java.util.List<String> getRoles()

/**

 * Get the timezone the contributor is in. This is a number in
 * the range -11 to 12.
 *
 * @return String
 */
public String getTimezone()
{
    return this.timezone;
} //-- String getTimezone()

/**

 * Get the URL for the homepage of the contributor.
 *
 * @return String
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**

```

```

* Method removeRole.
*
* @param string
*/
public void removeRole( String string )
{
    getRoles().remove( string );
} //-- void removeRole( String )

/**
* Set the email address of the contributor.
*
* @param email
*/
public void setEmail( String email )
{
    this.email = email;
} //-- void setEmail( String )

/**
*
*
* @param key
* @param location
*/
public void setLocation( Object key, InputLocation location
)
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
        this.locations.put( key, location );
    }
} //-- void setLocation( Object, InputLocation )

/**
* Set the full name of the contributor.
*
* @param name
*/
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

```

```

/**
 * Set the organization to which the contributor belongs.
 *
 * @param organization
 */
public void setOrganization( String organization )
{
    this.organization = organization;
} //-- void setOrganization( String )

/**
 * Set the URL of the organization.
 *
 * @param organizationUrl
 */
public void setOrganizationUrl( String organizationUrl )
{
    this.organizationUrl
= organizationUrl;
} //-- void setOrganizationUrl( String )

/**
 * Set properties about the contributor, such as an instant
 * messenger handle.
 *
 * @param properties
 */
public void setProperties( java.util.Properties properties )
{
    this.properties = properties;
} //-- void setProperties( java.util.Properties )

/**
 * Set the roles the contributor plays in the project. Each
 * role is described by a
 *     <code>role</code> element, the body of which is
 * a role name. This can also be used to
 *     describe the contribution.
 *
 * @param roles
 */
public void setRoles( java.util.List<String> roles )
{
    this.roles = roles;
} //-- void setRoles( java.util.List )

/**
 * Set the timezone the contributor is in. This is a number in

```

```

    * the range -11 to 12.
    *
    * @param timezone
    */
    public void setTimezone(
String timezone )
    {
        this.timezone = timezone;
    } //-- void setTimezone( String )

/**
 * Set the URL for the homepage of the contributor.
 *
 * @param url
 */
    public void setUrl( String url )
    {
        this.url = url;
    } //-- void setUrl( String )

}

```

## 1.334 plexus-utils 1.5.1

## 1.335 plexus-interpolation 1.14

### 1.335.1 Available under license :

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```

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 */

```

Found in path(s):

```
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/PropertiesBasedValueSource.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/object/ObjectInterpolator.java
*
/opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/AbstractValueSource.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/SimpleRecursionInterceptor.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/PrefixedValueSourceWrapper.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/Interpolator.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/InterpolationCycleException.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/ValueSource.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/object/FieldBasedObjectInterpolator.java
*
/opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/InterpolationPostProcessor.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/FeedbackEnabledValueSource.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/InterpolationException.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/StringSearchInterpolator.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/AbstractDelegatingValueSource.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/PrefixAwareRecursionInterceptor.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/object/ObjectInterpolationWarning.java
*
/opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/RegexBasedInterpolator.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/RecursionInterceptor.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/QueryEnabledValueSource.java
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-
jar/org/codehaus/plexus/interpolation/AbstractFunctionValueSourceWrapper.java
```

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```

```
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\*/

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jar/org/codehaus/plexus/interpolation/util/StringUtils.java  
No license file was found, but licenses were detected in source scan.

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jar/org/codehaus/plexus/interpolation/util/ValueSourceUtils.java  
\* /opt/cola/permits/1001013641\_1651084706.67/0/plexus-interpolation-1-14-sources-  
jar/org/codehaus/plexus/interpolation/reflection/ReflectionValueExtractor.java  
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\* /opt/cola/permits/1001013641\_1651084706.67/0/plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/multi/DelimiterSpecification.java

\*

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\* /opt/cola/permits/1001013641\_1651084706.67/0/plexus-interpolation-1-14-sources-  
jar/org/codehaus/plexus/interpolation/multi/MultiDelimiterInterpolatorFilterReader.java

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 \*/  
 /\*\*  
 \* Determines if the current OS matches the given OS  
 \* version.

```
*  
* @param version the OS version to check for  
* @return true if the OS matches  
* @since 1.0  
*/
```

Found in path(s):

```
* /opt/cola/permits/1001013641_1651084706.67/0/plexus-interpolation-1-14-sources-  
jar/org/codehaus/plexus/interpolation/os/Os.java
```

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# 1.338 maven-plugin-descriptor 2.0.9

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## 1.339 aether-api 1.7

## 1.340 maven-dependency-tree 2.1

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```
/*
```

```
* $Id$
```

```
*/
```

```
package org.apache.maven.model;
```

```
/**
 *
 * Description of a person who has contributed to the
 * project, but who does
 * not have commit privileges. Usually, these contributions
 * come in the
 * form of patches submitted.
 *
 *
 * @version $Revision$ $Date$
 */
public class Contributor implements java.io.Serializable {
```

```
    //-----/
    //- Class/Member Variables -/
    //-----/
```

```
/**
 * Field name
 */
private String name;
```

```
/**
 * Field email
 */
private String email;
```

```
/**
 * Field url
 */
private String url;
```

```
/**
 * Field organization
 */
private String organization;
```

```
/**
 * Field organizationUrl
 */
private String organizationUrl;
```

```
/**
 * Field roles
 */
private java.util.List roles;
```

```

/**
 * Field timezone
 */
private String timezone;

/**
 * Field properties
 */
private
java.util.Properties properties;

//-----/
// Methods -/
//-----/

/**
 * Method addProperty
 *
 * @param key
 * @param value
 */
public void addProperty(String key, String value)
{
    getProperties().put( key, value );
} //-- void addProperty(String, String)

/**
 * Method addRole
 *
 * @param string
 */
public void addRole(String string)
{
    getRoles().add( string );
} //-- void addRole(String)

/**
 * Get The email address of the contributor.
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
 * Get The full name of the contributor.
 */

```

```

public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get The organization to which the contributor belongs.
 */
public String getOrganization()
{
    return this.organization;
} //-- String
getOrganization()

/**
 * Get The URL of the organization.
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties
 */
public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles
 */
public java.util.List getRoles()
{
    if ( this.roles == null )
    {
        this.roles = new java.util.ArrayList();
    }

    return this.roles;
} //-- java.util.List getRoles()

```

```
/**
 * Get
 * The timezone the contributor is in. This is a
 * number in the range -11 to 12.
 */
public String getTimezone()
{
    return this.timezone;
} //-- String
getTimezone()
```

```
/**
 * Get The URL for the homepage of the contributor.
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()
```

```
/**
 * Method removeRole
 *
 * @param string
 */
public void removeRole(String string)
{
    getRoles().remove( string );
} //-- void removeRole(String)
```

```
/**
 * Set The email address of the contributor.
 *
 * @param email
 */
public void setEmail(String email)
{
    this.email = email;
} //-- void setEmail(String)
```

```
/**
 * Set The full name of the contributor.
 *
 * @param name
 */
public void setName(String name)
{
    this.name = name;
}
```



```

} //-- void setName(String)

/**
 * Set The organization to which the contributor belongs.
 *
 * @param organization
 */
public void setOrganization(String organization)
{
    this.organization = organization;
} //-- void setOrganization(String)

/**
 * Set The URL of the organization.
 *
 * @param organizationUrl
 */
public void setOrganizationUrl(String organizationUrl)
{
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl(String)

/**
 * Set
 *     Properties about the contributor, such as an
 *     instant messenger handle.
 *
 * @param properties
 */
public void setProperties(java.util.Properties properties)
{
    this.properties = properties;
} //-- void setProperties(java.util.Properties)

/**
 * Set
 *     The roles the contributor plays in the project.
 *     Each role is
 *     described by a <code>role</code> element, the
 *     body of which is a
 *     role name. This can also be used to describe the
 *     contribution.
 *
 * @param roles
 */

```

```

public void setRoles(java.util.List roles)

{
    this.roles = roles;
} //-- void setRoles(java.util.List)

/**
 * Set
 *     The timezone the contributor is in. This is a
 * number in the range -11 to 12.
 *
 *
 * @param timezone
 */
public void setTimezone(String timezone)
{
    this.timezone = timezone;
} //-- void setTimezone(String)

/**
 * Set The URL for the homepage of the contributor.
 *
 * @param url
 */
public void setUrl(String url)
{
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding )
{
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding()
{
    return modelEncoding;
}}

```

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```

```
// Version 2.0, in this case for Maven Model
```

```
// -----
```

Maven Model

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```
/*
```

```
* $Id$
```

```
*/
```

```
package org.apache.maven.model;
```

```
/**
```

```
*
```

```
* Describes the licenses for this project. This is used
```

```
* to generate
```

```
* the license page of the project's web site, as well as
```

```
* being taken into consideration in other reporting and
```

```
* validation. The licenses listed for the project are that
```

```
* of the project itself, and not of dependencies.
```

```
*
```

```
*
```

```
* @version $Revision$ $Date$
```

```
*/
```

```
public class License implements java.io.Serializable {
```

```
    //-----/
```

```
    //- Class/Member Variables -/
```

```
    //-----/
```

```
/**
```

```

* Field name
*/
private String name;

/**
* Field url
*/
private String url;

/**
* Field distribution
*/
private String distribution;

/**
* Field comments
*/
private String comments;

//-----/
//- Methods -/
//-----/

/**
* Get
*      Addendum information pertaining to this license.
*
*/
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
* Get
*      The primary method by which this project may
* be distributed.
*      <dl>
*          <dt>repo</dt>
*          <dd>may be downloaded from the Maven
* repository</dd>
*          <dt>>manual</dt>
*          <dd>user must manually download and install
* the dependency.</dd>
*      </dl>
*
*/

```



```

public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 * Get The full legal name of the license.
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get The official url for the license text.
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set
 *      Addendum information pertaining to this license.
 *
 *
 * @param comments
 */
public void setComments(String comments)
{
    this.comments = comments;
} //-- void setComments(String)

/**
 * Set
 *      The primary method by which this project may
 * be distributed.
 *      <dl>
 *          <dt>repo</dt>
 *          <dd>may be downloaded from the Maven
 * repository</dd>
 *          <dt>>manual</dt>
 *          <dd>user must manually download and install
 * the dependency.</dd>
 *      </dl>
 *
 *
 * @param distribution

```

```

*/
public void setDistribution(String distribution)
{
    this.distribution = distribution;
} //-- void setDistribution(String)

/**
 * Set The full legal name of the license.
 *
 * @param name
 */
public void setName(String name)
{
    this.name
= name;
} //-- void setName(String)

/**
 * Set The official url for the license text.
 *
 * @param url
 */
public void setUrl(String url)
{
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding )
{
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding()
{
    return modelEncoding;
}}

```

## 1.343 maven-settings 2.0.6

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## 1.352 sisu-guice 2.1.7

## 1.353 plexus-cipher 1.4

## 1.354 plexus-component-annotations 1.7.1

## 1.355 maven-plugin-registry 2.0.6

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## 1.357 aether-spi 1.7

# 1.358 maven-core 2.0.9

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## 1.362 maven-model 2.2.1

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```
=====
*/

package org.apache.maven.model;

/**
 * Describes the licenses for this project. This is used to
 * generate the license
 * page of the project's web site, as well as being taken
 * into consideration in other reporting
 * and validation. The licenses listed for the project are
 * that of the project itself, and not
 * of dependencies.
 *
 * @version $Revision$ $Date$
 */
public class License
    implements java.io.Serializable
{

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
     * The full legal name of the license.
     */
    private String name;

    /**
     * The official url for the license text.
     */
    private String url;

    /**
     *
     * The primary method by which this project may be
     * distributed.
     * <dl>
     * <dt>repo</dt>
     * <dd>may be downloaded from the Maven
     * repository</dd>
     * <dt>>manual</dt>
     * <dd>user must manually download and install
     * the dependency.</dd>

```

```

*      </dl>
*
*
*/
private String distribution;

/**
 * Addendum information pertaining to this license.
 */
private String comments;

//-----/
// Methods -/
//-----/

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be
 * distributed.
 *
 *      <dl>
 *          <dt>repo</dt>
 *
 * <dd>may be downloaded from the Maven
 * repository</dd>
 *
 *          <dt>manual</dt>
 *          <dd>user must manually download and install
 * the dependency.</dd>
 *      </dl>
 *
 * @return String
 */
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 * Get the full legal name of the license.

```

```

*
* @return String
*/
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set addendum information pertaining to this license.
 *
 * @param comments
 */
public void setComments( String comments )
{
    this.comments = comments;
} //-- void setComments( String )

/**
 * Set the primary method
by which this project may be
 * distributed.
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>manual</dt>
 * <dd>user must manually download and install
 * the dependency.</dd>
 * </dl>
 *
 * @param distribution
 */
public void setDistribution( String distribution )
{
    this.distribution = distribution;
} //-- void setDistribution( String )

```

```

/**
 * Set the full legal name of the license.
 *
 * @param name
 */
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the official url for the license text.
 *
 * @param url
 */
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )

}
/*
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=====
*/

package org.apache.maven.model;

/**
 * Description of a person who has contributed to the project, but
 * who does not have
 * commit privileges. Usually, these contributions come in
 * the form of patches submitted.
 *
 * @version $Revision$ $Date$
 */
public class Contributor
    implements java.io.Serializable
{

    //-----/
    // - Class/Member Variables -/
    //-----/

/**

```

```

* The full name of the contributor.
*/
private String name;

/**
* The email address of the contributor.
*/
private String email;

/**
* The URL for the homepage of the contributor.
*/
private String url;

/**
* The organization to which the contributor belongs.
*/
private String organization;

/**
* The URL of the organization.
*/
private String organizationUrl;

/**
* Field roles.
*/
private java.util.List<String> roles;

/**
* The timezone the contributor is in. This is a number in the
* range -11 to 12.
*/
private String timezone;

/**
* Field properties.
*/
private java.util.Properties properties;

//-----/
// - Methods -/
//-----/

/**
* Method addProperty.
*

```



```

* @param key
* @param value
*/
public void addProperty( String key, String value )
{
    getProperties().put( key, value );
} //-- void addProperty( String, String )

/**
 * Method addRole.
 *
 * @param string
 */
public void addRole( String string )
{
    if ( !(string instanceof String) )
    {
        throw new ClassCastException( "Contributor.addRoles(string) parameter must be instanceof " +
String.class.getName() );
    }
    getRoles().add( string );
} //-- void addRole( String )

/**
 * Get the email address of the contributor.
 *
 * @return String
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
 * Get the full name of the contributor.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the organization to which the contributor belongs.
 *
 * @return String
 */

```

```

public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
 * Get the URL of the organization.
 *
 * @return String
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties.
 *
 * @return Properties
 */
public java.util.Properties
getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles.
 *
 * @return List
 */
public java.util.List<String> getRoles()
{
    if ( this.roles == null )
    {
        this.roles = new java.util.ArrayList<String>();
    }

    return this.roles;
} //-- java.util.List<String> getRoles()

/**
 * Get the timezone the contributor is in. This is a number in

```

```

* the range -11 to 12.
*
* @return String
*/
public String getTimezone()
{
    return this.timezone;
} //-- String getTimezone()

/**
* Get the URL for the homepage of the contributor.
*
* @return String
*/
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
* Method removeRole.
*
* @param string
*/
public void removeRole( String string )
{
    if ( !(string instanceof String) )
    {
        throw new ClassCastException( "Contributor.removeRoles(string) parameter must be instanceof " +
String.class.getName() );
    }
    getRoles().remove( string );
} //-- void removeRole( String )

/**
* Set the email address of the contributor.
*
* @param email
*/
public void setEmail( String email )
{
    this.email = email;
} //-- void setEmail( String )

/**
* Set the full name of the contributor.
*
* @param name

```

```

*/
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the organization to which the contributor belongs.
 *
 * @param organization
 */
public void setOrganization( String organization )
{
    this.organization = organization;
} //-- void setOrganization(
String )

/**
 * Set the URL of the organization.
 *
 * @param organizationUrl
 */
public void setOrganizationUrl( String organizationUrl )
{
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl( String )

/**
 * Set properties about the contributor, such as an instant
 * messenger handle.
 *
 * @param properties
 */
public void setProperties( java.util.Properties properties )
{
    this.properties = properties;
} //-- void setProperties( java.util.Properties )

/**
 * Set the roles the contributor plays in the project. Each
 * role is described by a
 * <code>role</code> element, the body of which is
 * a role name. This can also be used to
 * describe the contribution.
 *
 * @param roles
 */
public void setRoles( java.util.List<String> roles )

```

```

    {
        this.roles = roles;
    } //-- void setRoles( java.util.List
)

/**
 * Set the timezone the contributor is in. This is a number in
 * the range -11 to 12.
 *
 * @param timezone
 */
public void setTimezone( String timezone )
{
    this.timezone = timezone;
} //-- void setTimezone( String )

/**
 * Set the URL for the homepage of the contributor.
 *
 * @param url
 */
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )

}

```

## 1.363 maven-plugin-api 3.0

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## 1.373 commons-digester 1.6

### 1.374 joda-time 1.6.2

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## 1.377 jetty-xml 9.4.10.v20180503

## 1.378 wagon-http-shared 1.0-beta-2

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## 1.381 jetty-webapp 9.4.10.v20180503

## 1.382 xbean-spring 4.2

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## 1.383 jetty-util 9.4.10.v20180503

## 1.384 wagon-http-lightweight 1.0-beta-2

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## 1.388 commons-lang3 3.1

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# 1.389 wagon-provider-api 2.8

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- \* Project: <https://ant.apache.org/>
- \* Source:  
<http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

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- \* Source: <https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

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mex.xsd Version: 2004/09 (n/a)

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\* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

\*

Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

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\* Project: <https://github.com/FasterXML/stax2-api>

\* Source:

<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

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\* Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

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\* Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>

\* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

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<http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wrm Version: 2005/02 (n/a)

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\* Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>

\* Source:

<http://schemas.xmlsoap.org/ws/2005/02/rm/wrm.xsd>; <http://schemas.xmlsoap.org/ws/2005/02/rm/wrm-policy.xsd>

wrm.xsd (1.2)

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xmlsec (1.5.8)

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\* Project: <http://santuario.apache.org/>

\* Source:

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## 1.392 maven-archiver 2.5

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## 1.394 jersey-container-servlet 2.22.2

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## 1.405 ganymed-ssh2 build210

## 1.406 jakarta-regexp 1.4

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## 1.408 jackson-module-parameter-names 2.9.5

## 1.409 jackson-datatype-jsr310 2.9.5

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## 1.412 pam 1.1.8-3.6ubuntu2

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-----  
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam\_motd/pam\_motd.c

```
=====
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);

```

```

+
+
+   /* Get the password entry */
+   pwd = pam_modutil_getpwnam (pamh, user);
+   if (pwd != NULL)
+   {
+       if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+           pam_syslog(pamh, LOG_ERR,
+               "Unable to change UID to %d temporarily\n",
+               pwd->pw_uid);
+           retval = PAM_SESSION_ERR;
+           goto finished;
+       }
+
+       if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+           goto finished;
+       if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+           goto finished;
+
+       if (stat(flag, &s) != 0)
+       {
+           display_file(pamh, "/etc/legal");
+           mkdir(dir, 0700);
+           f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+               S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+           if (f>=0) close(f);
+       }
+
+   +finished:
+       if (pam_modutil_regain_priv(pamh,
+           &privs)) {
+           pam_syslog(pamh, LOG_ERR,
+               "Unable to change UID back to %d\n", privs.old_uid);
+           retval = PAM_SESSION_ERR;
+       }
+
+       _pam_drop(flag);
+       _pam_drop(dir);
+   }
+ }
+ return retval;
+}
+
+PAM_EXTERN
+int pam_sm_open_session(pam_handle_t *pamh, int flags,
+    int argc, const char **argv)
+@@ -116,6 +171,9 @@
+    /* Display the updated motd */

```

```
display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
+ return retval;
}
```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on  
Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from <ftp://ftp.kernel.org/pub/linux/libs/pam/pre/>

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## 1.423 maven-shared-io 1.1

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## 1.425 jackson-module-afterburner 2.9.5

## 1.426 wagon-ssh-common 1.0-beta-2

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- \* /opt/cola/permits/1001477444\_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-jar/org/codehaus/plexus/logging/Logger.java
- \*  
/opt/cola/permits/1001477444\_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-jar/org/codehaus/plexus/configuration/PlexusConfiguration.java
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/opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/KnownHosts.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/BlowfishCBC.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/DHGEX.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ChannelSession.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-
jar/com/jcraft/jsch/JSchPartialAuthException.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/RequestExec.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/SftpException.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-
jar/com/jcraft/jsch/UserAuthKeyboardInteractive.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-
jar/com/jcraft/jsch/ChannelDirectTCPIP.java
*
/opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ServerSocketFactory.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/HMACSHA196.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Random.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Packet.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-
jar/com/jcraft/jsch/UIKeyboardInteractive.java
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\* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/KeyExchange.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/HASH.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/SocketFactory.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ForwardedTCPIPDaemon.java  
 \*  
 /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Buffer.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/RequestShell.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/PortWatcher.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/KeyPairGenDSA.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Request.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/KeyPairDSA.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/KeyPairRSA.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/AES256CBC.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/TripleDESCBC.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Proxy.java  
 \*  
 /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/KeyPairGenDSA.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ChannelExec.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/KeyPairGenRSA.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/CipherNone.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Util.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Cipher.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/UserAuthPassword.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ProxyHTTP.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Identity.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/SHA1.java  
 \*  
 /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/SftpATTRS.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/RequestSftp.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/JSchException.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/UserAuthNone.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/SignatureDSA.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/MAC.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/HMACSHA1.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Compression.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/SignatureDSA.java  
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 /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jcraft/Compression.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/AES128CBC.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/UserAuth.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/RequestSignal.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/MD5.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/JSchAuthCancelException.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ProxySOCKS5.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/AES192CBC.java  
 \* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-

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jar/com/jcraft/jsch/RequestWindowChange.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/SignatureRSA.java
*
/opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-
jar/com/jcraft/jsch/ChannelForwardedTCPIP.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/KeyPairGenRSA.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/RequestPtyReq.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/KeyPair.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/HostKey.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ChannelSftp.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ChannelShell.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/HMACMD596.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-
jar/com/jcraft/jsch/SftpProgressMonitor.java
*
/opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/JSch.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ChannelX11.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/DH.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/RequestX11.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/IdentityFile.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/DH.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/IO.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/Session.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/jce/HMACMD5.java
* /opt/cola/permits/1001477492_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/UserInfo.java
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Found in path(s):

\* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/RequestSubsystem.java

\* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ChannelSubsystem.java

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\* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/HostKeyRepository.java

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\* /opt/cola/permits/1001477492\_1646171666.21/0/jsch-0-1-27-sources-jar/com/jcraft/jsch/ProxySOCKS4.java

## 1.435 wagon-ssh 1.0-beta-2

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## 1.436 jetty-xml 9.4.11.v20180605

## 1.437 jetty-webapp 9.4.11.v20180605

## 1.438 jackson-module-parameter-names 2.9.6

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## 1.444 jdiameter-parent 1.5.9.0

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

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

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## 1.445 jdiameter-ha-parent 1.1.0

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## 1.446 maven-shared-utils 3.2.1

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## 1.447 maven-settings-builder 3.0

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## 1.465 aether-spi 1.0.0.v20140518

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## **1.479 dropwizard-jetty 1.3.2**

## **1.480 jetty-servlets 9.4.10.v20180503**

## **1.481 dropwizard-lifecycle 1.3.2**

## **1.482 apr-util 1.6.1-2**

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**1.485 drop-wizard-metrics 1.3.2**

**1.486 libapache2-mod-authnz-external 3.3.2-0.1**

**1.487 dropwizard-configuration 1.3.2**

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## 1.496 dropwizard-logging 1.3.2

## 1.497 libapache2-mod-authz-unixgroup 1.1.0-0.1

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Mod\_authz\_unixgroup

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```

#!/usr/bin/env python
#
# check if a file has the proper license in it
#
# USAGE: check-license.py [-C] file1 file2 ... fileN
#
# A 'file' may in fact be a directory, in which case it is recursively
# searched.
#
# If the license cannot be found, then the filename is printed to stdout.
# Typical usage:
# $ check-license.py . > bad-files
#
# -C switch is used to change licenses.
# Typical usage:
# $ check-license.py -C file1 file2 ... fileN
#

import sys, os, re

# Note: Right now, OLD_LICENSE and NEW_LICENSE are the same, because
# r878444 updated all the license blocks. In the future, if we update
# the license block again, change just NEW_LICENSE and use this script.

OLD_LICENSE = """
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\* specific language governing permissions and limitations
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\* =====
"""

SH_OLD_LICENSE = re.subn(r'(?m)^\*\*', '#', OLD_LICENSE)[0]

```

```

# Remember not to do regexp quoting for NEW_LICENSE. Only OLD_LICENSE
# is used for matching; NEW_LICENSE is inserted as-is.
NEW_LICENSE = ""
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* =====
""

SH_NEW_LICENSE = re.subn(r'(?m)^\*', '#', NEW_LICENSE)[0]

re_OLD
= re.compile(OLD_LICENSE)
re_SH_OLD = re.compile(SH_OLD_LICENSE)
re_EXCLUDE = re.compile(
    r'automatically generated by SWIG'
    + r'|Generated from configure\.in'
    + r'|placed into the public domain'
)

c_comment_suffices = ('.c', '.java', '.h', '.cpp', '.hw', '.pas')

# Yes, this is an empty tuple. No types that fit in this category uniformly
# have a copyright block.
# Possible types to add here:
# ('.bat', '.py', '.pl', '.in')
sh_comment_suffices = ()

def check_file(fname, old_re, new_lic):
    s = open(fname).read()
    if (not old_re.search(s)
        and not re_EXCLUDE.search(s)):
        print(fname)

```

```

def change_license(fname, old_re, new_lic):
    s = open(fname).read()
    m = old_re.search(s)
    if not m:
        print('ERROR: missing old license: %s' % fname)
    else:
        s = s[:m.start()] + new_lic + s[m.end():]
        open(fname, 'w').write(s)
        print('Changed: %s' % fname)

def visit(baton, dirname, dircontents):
    file_func = baton
    for i in dircontents:
        # Don't
        recurse into certain directories
        if i in ('.svn', '.libs'):
            dircontents.remove(i)
            continue

        extension = os.path.splitext(i)[1]
        fullname = os.path.join(dirname, i)

        if os.path.isdir(fullname):
            continue

        if extension in c_comment_suffices:
            file_func(fullname, re_OLD, NEW_LICENSE)
        elif extension in sh_comment_suffices:
            file_func(fullname, re_SH_OLD, SH_NEW_LICENSE)

def main():
    file_func = check_file
    if sys.argv[1] == '-C':
        print('Changing license text...')
        del sys.argv[1]
        file_func = change_license

    for f in sys.argv[1:]:
        if os.path.isdir(f):
            baton = file_func
            for dirpath, dirs, files in os.walk(f):
                visit(baton, dirpath, dirs + files)
        else:
            baton = file_func
            dir, i = os.path.split(f)
            visit(baton, dir, i)

if __name__ == '__main__':

```

main()

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\* Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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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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the License, or  
(at your option) any later version.
```

```
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```

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```

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```
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under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.513 httpcomponents-client 4.5.2

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\* /opt/cola/permits/1003523487\_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-jar/org/codehaus/plexus/components/interactivity/DefaultPrompter.java

\* /opt/cola/permits/1003523487\_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-

```
jar/org/codehaus/plexus/components/interactivity/OutputHandler.java
* /opt/cola/permits/1003523487_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-
jar/org/codehaus/plexus/components/interactivity/AbstractInputHandler.java
* /opt/cola/permits/1003523487_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-
jar/org/codehaus/plexus/components/interactivity/PrompterException.java
* /opt/cola/permits/1003523487_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-
jar/org/codehaus/plexus/components/interactivity/Prompter.java
*
/opt/cola/permits/1003523487_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-
jar/org/codehaus/plexus/components/interactivity/DefaultInputHandler.java
* /opt/cola/permits/1003523487_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-
jar/org/codehaus/plexus/components/interactivity/InputHandler.java
* /opt/cola/permits/1003523487_1646171696.02/0/plexus-interactivity-api-1-0-alpha-4-sources-
jar/org/codehaus/plexus/components/interactivity/DefaultOutputHandler.java
```

## 1.516 threetenbp 1.3.6

## 1.517 swagger 1.5.15

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## 1.518 asm-tree 4.1

## 1.519 systemd 237-3ubuntu10.25

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## 1.521 simpleclient-common 0.2.0

## 1.522 simpleclient-httpserver 0.2.0

## 1.523 simpleclient 0.2.0

## 1.524 maven-toolchain 2.0.9

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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

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

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

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```
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under certain conditions; type `show c' for details.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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# 1.537 xorg 7.7+19ubuntu7.1

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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It has been maintained for Debian by Noah Meyerhans <noahm@debian.org>  
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It was downloaded from <https://github.com/iputils/iputils>

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following 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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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.541 jetty-util 9.4.18.v20190429

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\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

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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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## Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

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

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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

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.543 jetty-security 9.4.18.v20190429

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

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

-----

#### Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

-----

#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

-----

#### Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

-----

#### MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.544 kubernetes-model 4.1.0

## 1.545 kubernetes-client 4.1.0

# 1.546 eclipse-equinox-p2-metadata 2.3.100

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```
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 *
 * Contributors:
 *   EclipseSource - initial API and implementation
 *   IBM - ongoing development
 */
package org.eclipse.equinox.p2.metadata;

import java.net.URI;

/**
 * The ILicense interface represents a software license. A license has required body text
 * which may be the full text or an annotation. An optional URL field can be specified
 * which links to full text. Licenses can be easily compared using their digests.
 * Licenses can be added to arbitrary installable units, and will typically be displayed to
 * end users
 * and require explicit agreement before installation proceeds.
 * <p>
 * Instances of this class are handle objects and do not necessarily
 * reflect entities that exist in any particular profile or repository. These handle
 * objects can be created using { @link MetadataFactory }.
 * </p>
 *
 * @noimplement This interface is not intended to be implemented by clients.
 * @noextend This interface is not intended to be extended by clients.
 * @since 2.0
 */
public interface ILicense {

    /**
     * Returns the location of a document containing the full license.
     *
     * @return the location of the license document, or null
     */
    public URI getLocation();

    /**
     * Returns the license body.
     *
     * @return the license body, never null
     */
}
```

```

public String getBody();

/**
 * Returns the message digest of the license body. The digest is calculated on a normalized
 * version of the license where all whitespace has been reduced to one space.
 *
 * @return the message
 * digest as a BigInteger, never null
 */
public String getUUID();

/**
 * Returns whether this license is equal to the given object.
 *
 * This method returns true if:
 *
 * 


 * - Both this object and the given object are of type ILicense

 * - The result of getDigest() on both objects are equal


 */
public boolean equals(Object obj);

}
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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/
package org.eclipse.equinox.internal.p2.metadata;

import java.net.URI;
import org.eclipse.equinox.p2.metadata.ICopyright;

/**
 * The Copyright class represents a software copyright. A copyright has
 * required body text which may be the full text or a summary. An optional location field can be specified
 * which links to full text.
 */
public class Copyright implements ICopyright {
/**
 * The body contains the descriptive text
 for the copyright. This may
 * be a summary for a copyright specified in a URL.

```

```

*/
private final String body;

/**
 * The <code>location</code> is the location of a document containing a copyright notice.
 */
private URI location;

/**
 * Creates a new copyright. The body must contain the full text of the copyright.
 *
 * @param location the location of a document containing the copyright notice, or <code>null</code>
 * @param body the copyright body, cannot be <code>null</code>
 * @throws IllegalArgumentException when the <code>body</code> is <code>null</code>
 */
public Copyright(URI location, String body) {
    if (body == null)
        throw new IllegalArgumentException("body cannot be null"); //$NON-NLS-1$
    this.location = location;
    this.body = body;
}

/**
 * Returns the location of a document containing the copyright notice.
 *
 * @return The location of the copyright notice, or <code>null</code>
 */
public URI getLocation() {
    return location;
}

/**
 *
 * Returns the license body.
 *
 * @return the license body, never <code>null</code>
 */
public String getBody() {
    return body;
}
}

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 *
 * Contributors:

```

```

* Genuitec, LLC - initial API and implementation
* IBM Corporation - ongoing development
* EclipseSource - ongoing development
*****/
package org.eclipse.equinox.internal.p2.metadata;

```

```

import java.io.UnsupportedEncodingException;
import java.math.BigInteger;
import java.net.URI;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import org.eclipse.equinox.p2.metadata.ILicense;

```

```

/**
 * The <code>License</code> class represents a software license. A license has required body text
 * which may be the full text or an annotation. An optional URL field can be specified
 * which links to full text. Licenses can be easily compared using their digests.
 */

```

```

public class License implements ILicense {

```

```

/**

```

```

 * The <code>body</code> contains the descriptive text for the license. This may
 * be a summary for a full license specified in a URL.

```

```

 */

```

```

private final String body;

```

```

/**

```

```

 * The <code>location</code> is the URL of the license.

```

```

 */

```

```

private URI location;

```

```

/**

```

```

 * The <code>digest</code> is the cached message digest of the normalized body

```

```

 */

```

```

private String digest;

```

```

/**

```

```

 * Creates a new license object which is identified by users using the <code>body</code> field.

```

```

 * The body should contain either the full text of the license or an summary for a license

```

```

 * fully specified in the given location.

```

```

 *

```

```

 * @param location the location of a document containing the full license, or <code>null</code>

```

```

 * @param body the license body, cannot be <code>null</code>

```

```

 * @throws IllegalArgumentException when the <code>body</code> is <code>null</code>

```

```

 */

```

```

public License(URI location, String body, String uuid) {

```

```

if (body == null)

```

```

    throw new IllegalArgumentException("body cannot be null"); //$NON-NLS-1$

```

```

this.body = body;
this.location = location;
this.digest = uuid;
}

/**
 * Returns the location of a document containing the full license.
 *
 * @return the location of the license document, or <code>null</code>
 */
public URI getLocation() {
    return location;
}

/**
 * Returns the license body.
 * @return the license body, never <code>null</code>
 */
public String getBody() {
    return body;
}

/**
 * Returns the message digest of the license body. The digest is calculated on a normalized
 * version of the license where all whitespace has been reduced to one space.
 * @return the message digest as a <code>BigInteger</code>, never <code>null</code>
 */
public synchronized String getUUID() {
    if (digest == null)
        digest
        = calculateLicenseDigest().toString(16);

    return digest;
}

/* (non-Javadoc)
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (obj == null)
        return false;
    if (obj instanceof ILicense) {
        ILicense other = (ILicense) obj;
        if (other.getUUID().equals(getUUID()))
            return true;
    }
}

```



```

return false;
}

/* (non-Javadoc)
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
return getUUID().hashCode();
}

private BigInteger calculateLicenseDigest() {
String message = normalize(getBody());
try {
MessageDigest algorithm = MessageDigest.getInstance("MD5"); //$NON-NLS-1$
algorithm.reset();
algorithm.update(message.getBytes("UTF-8")); //$NON-NLS-1$
byte[] digestBytes = algorithm.digest();
return new BigInteger(1, digestBytes);
} catch (NoSuchAlgorithmException e) {
throw new RuntimeException(e);
} catch (UnsupportedEncodingException e) {
throw new RuntimeException(e);
}
}

/**
 * Replace all sequences of whitespace with a single whitespace character.
 */
private String normalize(String license) {
String text = license.trim();
StringBuffer result = new StringBuffer();
int length = text.length();
for (int i = 0; i < length; i++) {
char c = text.charAt(i);
boolean foundWhitespace = false;
while (Character.isWhitespace(c) && i < length) {
foundWhitespace = true;
c = text.charAt(++i);
}
if (foundWhitespace)
result.append(' ');
if (i < length)
result.append(c);
}
return result.toString();
}
}

```

# 1.547 swagger-jersey2-jaxrs 1.5.15

## 1.548 maven-model-builder 3.5.3

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# 1.549 maven-plugin-annotations 3.4

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# 1.551 dropwizard-jersey 1.3.5

## 1.552 maven-model-builder 3.2.5

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## 1.555 maven-model 3.2.5

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```
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// =====  
  
package org.apache.maven.model;  
  
/**  
 * Describes the licenses for this project. This is used to  
 * generate the license  
 * page of the project's web site, as well as being taken  
 * into consideration in other reporting  
 * and validation. The licenses listed for the project are  
 * that of the project itself, and not  
 * of dependencies.  
 */
```

```

* @version $Revision$ $Date$
*/
@SuppressWarnings( "all" )
public class License
    implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
     * The full legal name of the license.
     */
    private String name;

    /**
     * The official url for the license text.
     */
    private String url;

    /**
     *
     * The primary method by which this project may be
     * distributed.
     * <dl>
     * <dt>repo</dt>
     * <dd>may be downloaded from the Maven
     * repository</dd>
     * <dt>manual</dt>
     * <dd>user must manually download and install
     * the dependency.</dd>
     * </dl>
     *
     *
     */
    private String distribution;

    /**
     * Addendum information pertaining to this license.
     */
    private String comments;

    /**
     * Field locations.
     */
    private java.util.Map<Object, InputLocation> locations;

```

```

//-----/
//- Methods -/
//-----/

/**
 * Method clone.
 *
 * @return License
 */
public License clone()
{
    try
    {
        License copy = (License) super.clone();

        if ( copy.locations
!= null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
+ " does not support clone()" ).initCause( ex );
    }
} //-- License clone()

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be
 * distributed.
 *
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven

```

```

* repository</dd>
*      <dt>manual</dt>
*      <dd>user must manually download and install
* the dependency.</dd>
*
*      </dl>
*
* @return String
*/
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set addendum information pertaining to this license.
 *

```

```

* @param comments
*/
public void setComments( String comments )
{
    this.comments = comments;
} //-- void setComments(
String )

/**
 * Set the primary method by which this project may be
 * distributed.
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>manual</dt>
 * <dd>user must manually download and install
 * the dependency.</dd>
 * </dl>
 *
 * @param distribution
 */
public void setDistribution( String distribution )
{
    this.distribution = distribution;
} //-- void setDistribution( String )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
        this.locations.put( key, location );
    }
} //--
void setLocation( Object, InputLocation )

/**
 * Set the full legal name of the license.

```

```

*
* @param name
*/
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the official url for the license text.
 *
 * @param url
 */
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )

}

```

Maven Model

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// any modifications will be overwritten.

```
// =====

package org.apache.maven.model;

/**
 * Description of a person who has contributed to the project, but
 * who does not have
 *   commit privileges. Usually, these contributions come in
 * the form of patches submitted.
 *
 * @version $Revision$ $Date$
 */
@SuppressWarnings( "all" )
public class Contributor
    implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
     * The full name of the contributor.
     */
    private String name;

    /**
     * The email address of the contributor.
     */
    private String email;

    /**
     * The URL for the homepage of the contributor.
     */
    private String url;

    /**
     * The organization to which the contributor belongs.
     */
    private String organization;

    /**
     * The URL of the organization.
     */
    private String organizationUrl;

    /**
```

```

* Field roles.
*/
private java.util.List<String> roles;

/**
 *
 *
 *      The timezone the contributor is in. Typically,
 * this is a number in the range
 *      <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 *      or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 *
 */
private String timezone;

/**
 * Field properties.
*/
private java.util.Properties properties;

/**
 * Field locations.
*/
private java.util.Map<Object, InputLocation> locations;

//-----/
// -
Methods -/
//-----/

/**
 * Method addProperty.
 *
 * @param key
 * @param value
 */
public void addProperty( String key, String value )
{
    getProperties().put( key, value );
} //-- void addProperty( String, String )

```

```

/**
 * Method addRole.
 *
 * @param string
 */
public void addRole( String string )
{
    getRoles().add( string );
} //-- void addRole( String )

/**
 * Method clone.
 *
 * @return Contributor
 */
public Contributor clone()
{
    try
    {
        Contributor copy = (Contributor) super.clone();

        if ( this.roles != null )
        {
            copy.roles = new java.util.ArrayList<String>();
            copy.roles.addAll( this.roles );
        }

        if ( this.properties != null )
        {
            copy.properties = (java.util.Properties) this.properties.clone();
        }

        if
( copy.locations != null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
            + " does not support clone()" ).initCause( ex );
    }
} //-- Contributor clone()

/**

```

```

* Get the email address of the contributor.
*
* @return String
*/
public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
*
*
* @param key
* @return InputLocation
*/
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
* Get the full name of the contributor.
*
* @return String
*/
public String getName()
{
    return this.name;
} //-- String getName()

/**
* Get the organization to which the contributor belongs.
*
* @return String
*/
public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
* Get the URL of the organization.
*
* @return String
*/
public String getOrganizationUrl()
{
    return this.organizationUrl;
}

```

```

} //-- String getOrganizationUrl()

/**
 * Method getProperties.
 *
 * @return Properties
 */
public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles.
 *
 * @return List
 */
public java.util.List<String> getRoles()
{
    if ( this.roles == null )
    {
        this.roles
= new java.util.ArrayList<String>();
    }

    return this.roles;
} //-- java.util.List<String> getRoles()

/**
 * Get the timezone the contributor is in. Typically, this is a
 * number in the range
 * <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 * or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 * @return String
 */
public String getTimezone()
{

```

```

        return this.timezone;
    } //-- String getTimezone()

/**
 * Get the URL for the homepage of the contributor.
 *
 * @return String
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Method removeRole.
 *
 * @param string
 */
public void removeRole( String string )
{
    getRoles().remove(
string );
} //-- void removeRole( String )

/**
 * Set the email address of the contributor.
 *
 * @param email
 */
public void setEmail( String email )
{
    this.email = email;
} //-- void setEmail( String )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
    }
}

```



```

        this.locations.put( key, location );
    }
} //-- void setLocation( Object, InputLocation )

/**
 * Set the full name of the contributor.
 *
 * @param name
 */
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the organization to which the contributor belongs.
 *
 * @param organization
 */
public void setOrganization( String organization )
{
    this.organization = organization;
} //-- void setOrganization( String )

/**
 * Set the URL of the organization.
 *
 * @param organizationUrl
 */
public void setOrganizationUrl( String organizationUrl )
{
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl( String )

/**
 * Set properties about the contributor, such as an instant
 * messenger handle.
 *
 * @param properties
 */
public void setProperties( java.util.Properties properties )
{
    this.properties = properties;
} //-- void setProperties( java.util.Properties )

/**
 * Set the roles the contributor plays in the project. Each
 * role is described by a

```

```

*      <code>role</code> element, the body of which is
* a role name. This can also be used to
*      describe the contribution.
*
* @param
roles
*/
public void setRoles( java.util.List<String> roles )
{
    this.roles = roles;
} //-- void setRoles( java.util.List )

/**
* Set the timezone the contributor is in. Typically, this is a
* number in the range
*      <a
* href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
* to <a
* href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
*      or a valid time zone id like
* "America/Montreal" (UTC-05:00) or "Europe/Paris"
* (UTC+01:00).
*
* @param timezone
*/
public void setTimezone( String timezone )
{
    this.timezone = timezone;
} //-- void setTimezone( String )

/**
* Set the URL for the homepage of the contributor.
*
* @param url
*/
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )
}

```

## 1.556 dropwizard-auth 1.1.1

# 1.557 maven-plugin-annotations 3.1

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## 1.558 plexus-interpolation 1.9

## 1.559 mockito 1.8.4

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## 1.561 dropwizard-servlets 1.3.5

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## 1.564 eclipse-equinox-frameworkadmin-equinox 1.0.700

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## 1.565 maven-model 3.5.3

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```
// ===== DO NOT EDIT THIS FILE =====  
// Generated by Modello 1.9.1,  
// any modifications will be overwritten.  
// =====  
  
package org.apache.maven.model;  
  
/**  
 * Describes the licenses for this project. This is used to  
 * generate the license  
 * page of the project's web site, as well as being taken  
 * into consideration in other reporting  
 * and validation. The licenses listed for the project are  
 * that of the project itself, and not  
 * of dependencies.  
 *  
 * @version $Revision$ $Date$  
 */
```

```

@SuppressWarnings( "all" )
public class License
    implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
     * The full legal name of the license.
     */
    private String name;

    /**
     * The official url for the license text.
     */
    private String url;

    /**
     *
     * The primary method by which this project may be
     * distributed.
     * <dl>
     * <dt>repo</dt>
     * <dd>may be downloaded from the Maven
     * repository</dd>
     * <dt>>manual</dt>
     * <dd>user must manually download and install
     * the dependency.</dd>
     * </dl>
     *
     *
     */
    private String distribution;

    /**
     * Addendum information pertaining to this license.
     */
    private String comments;

    /**
     * Field locations.
     */
    private java.util.Map<Object, InputLocation> locations;

```

```

//-----/
//- Methods -/
//-----/

/**
 * Method clone.
 *
 * @return License
 */
public License clone()
{
    try
    {
        License copy = (License) super.clone();

        if ( copy.locations
!= null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
+ " does not support clone()" ).initCause( ex );
    }
} //-- License clone()

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be
 * distributed.
 *
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>>manual</dt>

```

```

*      <dd>user must manually download and install
* the dependency.</dd>
*
*      </dl>
*
* @return String
*/
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set addendum information pertaining to this license.
 *
 * @param comments
 */

```



```

public void setComments( String comments )
{
    this.comments = comments;
} //-- void setComments(
String )

/**
 * Set the primary method by which this project may be
 * distributed.
 * <dl>
 * <dt>repo</dt>
 * <dd>may be downloaded from the Maven
 * repository</dd>
 * <dt>manual</dt>
 * <dd>user must manually download and install
 * the dependency.</dd>
 * </dl>
 *
 * @param distribution
 */
public void setDistribution( String distribution )
{
    this.distribution = distribution;
} //-- void setDistribution( String )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
        this.locations.put( key, location );
    }
} //--
void setLocation( Object, InputLocation )

/**
 * Set the full legal name of the license.
 *
 * @param name

```

```

*/
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the official url for the license text.
 *
 * @param url
 */
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )

}

```

Maven Model

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```
// ===== DO NOT EDIT THIS FILE =====  
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// any modifications will be overwritten.  
// =====
```

```
package org.apache.maven.model;
```

```

/**
 * Description of a person who has contributed to the project, but
 * who does not have
 *   commit privileges. Usually, these contributions come in
 * the form of patches submitted.
 *
 * @version $Revision$ $Date$
 */
@SuppressWarnings( "all" )
public class Contributor
    implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
     * The full name of the contributor.
     */
    private String name;

    /**
     * The email address of the contributor.
     */
    private String email;

    /**
     * The URL for the homepage of the contributor.
     */
    private String url;

    /**
     * The organization to which the contributor belongs.
     */
    private String organization;

    /**
     * The URL of the organization.
     */
    private String organizationUrl;

    /**
     * Field roles.
     */
    private java.util.List<String> roles;

```

```

/**
 *
 *
 *      The timezone the contributor is in. Typically,
 * this is a number in the range
 *      <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 *      or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 *
 */
private String timezone;

```

```

/**
 * Field properties.
 */
private java.util.Properties properties;

```

```

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;

```

```

//-----/
// -
Methods -/
//-----/

```

```

/**
 * Method addProperty.
 *
 * @param key
 * @param value
 */
public void addProperty( String key, String value )
{
    getProperties().put( key, value );
} //-- void addProperty( String, String )

```

```

/**
 * Method addRole.
 *
 * @param string

```



```

*/
public void addRole( String string )
{
    getRoles().add( string );
} //-- void addRole( String )

/**
 * Method clone.
 *
 * @return Contributor
 */
public Contributor clone()
{
    try
    {
        Contributor copy = (Contributor) super.clone();

        if ( this.roles != null )
        {
            copy.roles = new java.util.ArrayList<String>();
            copy.roles.addAll( this.roles );
        }

        if ( this.properties != null )
        {
            copy.properties = (java.util.Properties) this.properties.clone();
        }

        if
( copy.locations != null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
            + " does not support clone()" ).initCause( ex );
    }
} //-- Contributor clone()

/**
 * Get the email address of the contributor.
 *
 * @return String
 */

```

```

public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
 * Get the full name of the contributor.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the organization to which the contributor belongs.
 *
 * @return String
 */
public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
 * Get the URL of the organization.
 *
 * @return String
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties.

```

```

*
* @return Properties
*/
public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
* Method getRoles.
*
* @return List
*/
public java.util.List<String> getRoles()
{
    if ( this.roles == null )
    {
        this.roles
= new java.util.ArrayList<String>();
    }

    return this.roles;
} //-- java.util.List<String> getRoles()

/**
* Get the timezone the contributor is in. Typically, this is a
* number in the range
* <a
* href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
* to <a
* href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
* or a valid time zone id like
* "America/Montreal" (UTC-05:00) or "Europe/Paris"
* (UTC+01:00).
*
* @return String
*/
public String getTimezone()
{
    return this.timezone;
} //-- String getTimezone()

/**

```

```

* Get the URL for the homepage of the contributor.
*
* @return String
*/
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
* Method removeRole.
*
* @param string
*/
public void removeRole( String string )
{
    getRoles().remove(
string );
} //-- void removeRole( String )

/**
* Set the email address of the contributor.
*
* @param email
*/
public void setEmail( String email )
{
    this.email = email;
} //-- void setEmail( String )

/**
*
*
* @param key
* @param location
*/
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
        this.locations.put( key, location );
    }
} //-- void setLocation( Object, InputLocation )

```

```

/**
 * Set the full name of the contributor.
 *
 * @param name
 */
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the organization to which the contributor belongs.
 *
 * @param organization
 */
public void setOrganization( String organization )
{
    this.organization = organization;
} //-- void setOrganization( String )

/**
 * Set the URL of the organization.
 *
 * @param organizationUrl
 */
public void setOrganizationUrl( String organizationUrl )
{
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl( String )

/**
 * Set properties about the contributor, such as an instant
 * messenger handle.
 *
 * @param properties
 */
public void setProperties( java.util.Properties properties )
{
    this.properties = properties;
} //-- void setProperties( java.util.Properties )

/**
 * Set the roles the contributor plays in the project. Each
 * role is described by a
 *
 *     <code>role</code> element, the body of which is
 * a role name. This can also be used to
 *
 *     describe the contribution.
 *

```

```

    * @param
roles
    */
    public void setRoles( java.util.List<String> roles )
    {
        this.roles = roles;
    } //-- void setRoles( java.util.List )

/**
 * Set the timezone the contributor is in. Typically, this is a
 * number in the range
 * <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 * or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 * @param timezone
 */
    public void setTimezone( String timezone )
    {
        this.timezone = timezone;
    } //-- void setTimezone( String )

/**
 * Set the URL for the homepage of the contributor.
 *
 * @param url
 */
    public void setUrl( String url )
    {
        this.url = url;
    } //-- void setUrl( String )
}

```

# 1.566 maven-scm-provider-perforce 1.8

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# 1.567 mapstruct 1.3.0

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# 1.568 eclipse-equinox-p2-repository-tools

## 2.1.300

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```

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 *****/
package org.eclipse.equinox.p2.internal.repository.tools.analyzer;

import org.eclipse.equinox.p2.metadata.IInstallableUnit;
import org.eclipse.equinox.p2.metadata.MetadataFactory.InstallableUnitDescription;
import org.eclipse.equinox.p2.repository.metadata.IMetadataRepository;
import org.eclipse.equinox.p2.repository.tools.analyzer.IUAnalyzer;

/**
 * This service checks that all Group IUs have a copyright.
 */
public class CopyrightAnalyzer extends IUAnalyzer {

    public
    void analyzeIU(IInstallableUnit iu) {
        if (Boolean.parseBoolean(iu.getProperty(InstallableUnitDescription.PROP_TYPE_GROUP))) {
            if (iu.getCopyright() == null || iu.getCopyright().getBody().length() == 0) {
                // If there is no copyright at all, this is an error
                error(iu, "[ERROR] " + iu.getId() + " has no copyright");
                return;
            }
            if (iu.getCopyright() != null && iu.getCopyright().getBody().startsWith("%")) {
                // If there is a copyright, but it starts with %, then check the default
                // language for a copyright
                String copyrightProperty = iu.getCopyright().getBody().substring(1);
                if (iu.getProperty("df_LT." + copyrightProperty) == null)
                    error(iu, "[ERROR] " + iu.getId() + " has no copyright");
            }
        }
    }

    public void preAnalysis(IMetadataRepository repository) {
        // do nothing
    }
}

```

}

# 1.569 maven-scm-provider-starteam 1.8

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# 1.582 eclipse-equinox-p2-touchpoint-natives

## 1.2.100

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# 1.583 openapi-generator 3.3.4

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=begin comment

```
{{#appName}}  
{{{appName}}}
```

```
{{/appName}}  
{{#appDescription}}  
{{{appDescription}}}
```

```
{{/appDescription}}  
{{#version}}OpenAPI spec version: {{version}}{/version}}  
{{#infoEmail}}Contact: {{{infoEmail}}}{/infoEmail}}  
Generated by: https://openapi-generator.tech
```

=end comment

=cut

# 1.584 maven-surefire-common 2.12.4

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## 1.585 wagon-provider-api 1.0-alpha-6

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## 1.588 maven-resolver-api 1.1.1

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## 1.594 asm-util 4.1

## 1.595 maven-compat 3.5.3

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## 1.596 jetty-util 6.1.25

## 1.597 eclipse-equinox-launcher 1.3.201

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## 1.600 maven-plugin-testing-harness 1.0-beta-1

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api



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## Oracle OpenJDK

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\* java.sun.security.ssl

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

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

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org.ow2.asm:asm-commons

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## Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.617 threetenbp 1.3.1

## 1.618 wagon-ssh 1.0

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# 1.629 maven-site-plugin 3.3

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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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## Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

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

-----

## Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

-----

## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

-----

## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.633 annotations 4.1.1.4

## 1.634 dropwizard-request-logging 1.3.5

# 1.635 simpleclient-hotspot 0.2.0

## 1.636 plexus-archiver 2.3

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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#### Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

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

\* java.sun.security.ssl

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

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

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#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.  
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## 1.643 airline 0.8

## 1.644 dropwizard-configuration 1.3.5

# 1.645 plexus-utils 3.0.7

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- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

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

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Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.662 eclipse-core-contenttype

### 3.5.100.v20160418-1621

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# 1.666 maven-scm-provider-cvsjava 1.8

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# 1.667 jetty-alpn-client 9.4.18.v20190429

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\* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.668 plexus-utils 1.5.10

## 1.669 eclipse-equinox-preferences 3.6.1

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# 1.672 plexus-utils 3.0.9

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# 1.682 maven-resolver-transport-wagon 1.1.1

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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

\* java.sun.security.ssl

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

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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## 1.685 asm-analysis 4.1

## 1.686 eclipse-equinox-p2-artifact-repository

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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\* java.sun.security.ssl

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

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org.ow2.asm:asm-commons

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

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

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#### Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

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#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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#### Apache

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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
- org.apache.tomcat:tomcat-juli



org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.694 struts 1.3.8

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# 1.699 doxia-decoration-model 1.2

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## 1.702 maven-repository-metadata 3.5.3

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## 1.704 jansi 1.17

## 1.705 maven-slf4j-provider 3.5.3

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## 1.708 maven-doxia-tools 1.0.2

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# 1.719 maven-deploy-plugin 2.7

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## 1.734 mockito-core 1.8.4

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## 1.743 tycho-testing-harness 1.0.0

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## 1.745 eclipse-equinox-p2-jarprocessor

### 1.0.500

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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

-----

Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.748 maven-resources-plugin 2.4.3

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## 1.760 swagger-annotations 1.5.21

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```

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}

```

## 1.761 open-ldap 2.4.45+dfsg-1ubuntu1.3

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```
// Generated by the protocol buffer compiler. DO NOT EDIT!
```

```
// source: auth.proto
```

```
package io.etcd.jetcd.api;
```

```
/**
```

```
 * <pre>
```

```
 * Permission is a single entity
```

```
 * </pre>
```

```
 *
```

```
 * Protobuf type {@code authpb.Permission}
```

```
 */
```

```
public final class Permission extends
```

```
    com.google.protobuf.GeneratedMessageV3 implements
```

```
    // @@protoc_insertion_point(message_implementation:authpb.Permission)
```

```
    PermissionOrBuilder {
```

```
private static final long serialVersionUID = 0L;
```

```
    // Use Permission.newBuilder() to construct.
```

```
private Permission(com.google.protobuf.GeneratedMessageV3.Builder<?> builder) {
```

```
    super(builder);
```

```
}
```

```

private Permission() {
    permType_ = 0;
    key_ = com.google.protobuf.ByteString.EMPTY;
    rangeEnd_ = com.google.protobuf.ByteString.EMPTY;
}

@java.lang.Override
public final com.google.protobuf.UnknownFieldSet
getUnknownFields() {
    return this.unknownFields;
}
private Permission(
    com.google.protobuf.CodedInputStream input,
    com.google.protobuf.ExtensionRegistryLite
extensionRegistry)
    throws com.google.protobuf.InvalidProtocolBufferException {
    this();
    if (extensionRegistry == null) {
        throw new java.lang.NullPointerException();
    }
    int mutable_bitField0_ = 0;
    com.google.protobuf.UnknownFieldSet.Builder unknownFields =
        com.google.protobuf.UnknownFieldSet.newBuilder();
    try {
        boolean done = false;
        while (!done) {
            int tag = input.readTag();
            switch (tag) {
                case 0:
                    done = true;
                    break;
                default: {
                    if (!parseUnknownFieldProto3(
                        input, unknownFields, extensionRegistry, tag)) {
                        done = true;
                    }
                    break;
                }
                case 8: {
                    int rawValue = input.readEnum();

                    permType_ = rawValue;
                    break;
                }
                case 18: {

                    key_ = input.readBytes();
                    break;

```

```

    }
    case 26: {

        rangeEnd_
= input.readBytes();
        break;
    }
}
} catch (com.google.protobuf.InvalidProtocolBufferException e) {
    throw e.setUnfinishedMessage(this);
} catch (java.io.IOException e) {
    throw new com.google.protobuf.InvalidProtocolBufferException(
        e).setUnfinishedMessage(this);
} finally {
    this.unknownFields = unknownFields.build();
    makeExtensionsImmutable();
}
}
public static final com.google.protobuf.Descriptors.Descriptor
    getDescriptor() {
    return io.etcd.jetcd.api.Auth.internal_static_authpb_Permission_descriptor;
}

protected com.google.protobuf.GeneratedMessageV3.FieldAccessorTable
    internalGetFieldAccessorTable() {
    return io.etcd.jetcd.api.Auth.internal_static_authpb_Permission_fieldAccessorTable
        .ensureFieldAccessorsInitialized(
            io.etcd.jetcd.api.Permission.class, io.etcd.jetcd.api.Permission.Builder.class);
}

/**
 * Protobuf enum {@code authpb.Permission.Type}
 */
public enum Type
    implements com.google.protobuf.ProtocolMessageEnum {
    /**
     * <code>READ = 0;</code>
     */
    READ(0),
    /**
     * <code>WRITE = 1;</code>
     */
    WRITE(1),
    /**
     * <code>READWRITE = 2;</code>
     */
    READWRITE(2),

```



```

UNRECOGNIZED(-1),
;

/**
 * <code>READ = 0;</code>
 */
public static final int READ_VALUE = 0;
/**
 * <code>WRITE = 1;</code>
 */
public static final int WRITE_VALUE = 1;
/**
 * <code>READWRITE = 2;</code>
 */
public static final int READWRITE_VALUE = 2;

public final int getNumber() {
    if (this == UNRECOGNIZED) {
        throw new java.lang.IllegalArgumentException(
            "Can't get the number of an unknown enum value.");
    }
    return value;
}

/**
 * @deprecated Use {@link #forNumber(int)} instead.
 */
@java.lang.Deprecated
public static Type valueOf(int value) {
    return forNumber(value);
}

public
static Type forNumber(int value) {
    switch (value) {
        case 0: return READ;
        case 1: return WRITE;
        case 2: return READWRITE;
        default: return null;
    }
}

public static com.google.protobuf.Internal.EnumLiteMap<Type>
    internalGetValueMap() {
    return internalValueMap;
}
private static final com.google.protobuf.Internal.EnumLiteMap<

```

```

Type> internalValueMap =
  new com.google.protobuf.Internal.EnumLiteMap<Type>() {
    public Type findValueByNumber(int number) {
      return Type.forNumber(number);
    }
  };

public final com.google.protobuf.Descriptors.EnumValueDescriptor
  getValueDescriptor() {
  return getDescriptor().getValues().get(ordinal());
}
public final com.google.protobuf.Descriptors.EnumDescriptor
  getDescriptorForType() {
  return getDescriptor();
}
public static final com.google.protobuf.Descriptors.EnumDescriptor

getDescriptor() {
  return io.etcd.jetcd.api.Permission.getDescriptor().getEnumTypes().get(0);
}

private static final Type[] VALUES = values();

public static Type valueOf(
  com.google.protobuf.Descriptors.EnumValueDescriptor desc) {
  if (desc.getType() != getDescriptor()) {
    throw new java.lang.IllegalArgumentException(
      "EnumValueDescriptor is not for this type.");
  }
  if (desc.getIndex() == -1) {
    return UNRECOGNIZED;
  }
  return VALUES[desc.getIndex()];
}

private final int value;

private Type(int value) {
  this.value = value;
}

// @@protoc_insertion_point(enum_scope:authpb.Permission.Type)
}

public static final int PERMTYPE_FIELD_NUMBER = 1;
private int permType_;
/**
 * <code>.authpb.Permission.Type permType = 1;</code>

```

```

*/
public int getPermTypeValue() {
    return permType_;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public io.etcd.jetcd.api.Permission.Type
getPermType() {
    io.etcd.jetcd.api.Permission.Type result = io.etcd.jetcd.api.Permission.Type.valueOf(permType_);
    return result == null ? io.etcd.jetcd.api.Permission.Type.UNRECOGNIZED : result;
}

public static final int KEY_FIELD_NUMBER = 2;
private com.google.protobuf.ByteString key_;
/**
 * <code>bytes key = 2;</code>
 */
public com.google.protobuf.ByteString getKey() {
    return key_;
}

public static final int RANGE_END_FIELD_NUMBER = 3;
private com.google.protobuf.ByteString rangeEnd_;
/**
 * <code>bytes range_end = 3;</code>
 */
public com.google.protobuf.ByteString getRangeEnd() {
    return rangeEnd_;
}

private byte memoizedIsInitialized = -1;
public final boolean isInitialized() {
    byte isInitialized = memoizedIsInitialized;
    if (isInitialized == 1) return true;
    if (isInitialized == 0) return false;

    memoizedIsInitialized = 1;
    return true;
}

public void writeTo(com.google.protobuf.CodedOutputStream
output)
    throws java.io.IOException {
    if (permType_ != io.etcd.jetcd.api.Permission.Type.READ.getNumber()) {
        output.writeEnum(1, permType_);
    }
    if (!key_.isEmpty()) {

```

```

    output.writeBytes(2, key_);
}
if (!rangeEnd_.isEmpty()) {
    output.writeBytes(3, rangeEnd_);
}
unknownFields.writeTo(output);
}

public int getSerializedSize() {
    int size = memoizedSize;
    if (size != -1) return size;

    size = 0;
    if (permType_ != io.etcd.jetcd.api.Permission.Type.READ.getNumber()) {
        size += com.google.protobuf.CodedOutputStream
            .computeEnumSize(1, permType_);
    }
    if (!key_.isEmpty()) {
        size += com.google.protobuf.CodedOutputStream
            .computeBytesSize(2, key_);
    }
    if (!rangeEnd_.isEmpty()) {
        size += com.google.protobuf.CodedOutputStream
            .computeBytesSize(3, rangeEnd_);
    }
    size += unknownFields.getSerializedSize();
    memoizedSize = size;
    return size;
}

```

```

@Override
public boolean equals(final java.lang.Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof io.etcd.jetcd.api.Permission)) {
        return super.equals(obj);
    }
    io.etcd.jetcd.api.Permission other = (io.etcd.jetcd.api.Permission) obj;

```

```

    boolean result = true;
    result = result && permType_ == other.permType_;
    result = result && getKey()
        .equals(other.getKey());
    result = result && getRangeEnd()
        .equals(other.getRangeEnd());
    result = result && unknownFields.equals(other.unknownFields);
    return result;

```

```

}

@java.lang.Override
public int hashCode() {
    if (memoizedHashCode != 0) {
        return memoizedHashCode;
    }
    int hash = 41;
    hash = (19 * hash) + getDescriptor().hashCode();
    hash = (37 * hash) + PERMTYPE_FIELD_NUMBER;
    hash = (53 * hash) + permType_;
    hash = (37 * hash) + KEY_FIELD_NUMBER;
    hash = (53 * hash) + getKey().hashCode();
    hash = (37 * hash) +
    RANGE_END_FIELD_NUMBER;
    hash = (53 * hash) + getRangeEnd().hashCode();
    hash = (29 * hash) + unknownFields.hashCode();
    memoizedHashCode = hash;
    return hash;
}

public static io.etcd.jetcd.api.Permission parseFrom(
    java.nio.ByteBuffer data)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data);
}

public static io.etcd.jetcd.api.Permission parseFrom(
    java.nio.ByteBuffer data,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data, extensionRegistry);
}

public static io.etcd.jetcd.api.Permission parseFrom(
    com.google.protobuf.ByteString data)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data);
}

public static io.etcd.jetcd.api.Permission parseFrom(
    com.google.protobuf.ByteString data,
    com.google.protobuf.ExtensionRegistryLite
extensionRegistry)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data, extensionRegistry);
}

public static io.etcd.jetcd.api.Permission parseFrom(byte[] data)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data);
}
}

```

```

public static io.etcd.jetcd.api.Permission parseFrom(
    byte[] data,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws com.google.protobuf.InvalidProtocolBufferException {
    return PARSER.parseFrom(data, extensionRegistry);
}
public static io.etcd.jetcd.api.Permission parseFrom(java.io.InputStream input)
    throws java.io.IOException {
    return com.google.protobuf.GeneratedMessageV3
        .parseWithIOException(PARSER, input);
}
public static io.etcd.jetcd.api.Permission parseFrom(
    java.io.InputStream input,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws java.io.IOException {
    return
com.google.protobuf.GeneratedMessageV3
        .parseWithIOException(PARSER, input, extensionRegistry);
}
public static io.etcd.jetcd.api.Permission parseDelimitedFrom(java.io.InputStream input)
    throws java.io.IOException {
    return com.google.protobuf.GeneratedMessageV3
        .parseDelimitedWithIOException(PARSER, input);
}
public static io.etcd.jetcd.api.Permission parseDelimitedFrom(
    java.io.InputStream input,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws java.io.IOException {
    return com.google.protobuf.GeneratedMessageV3
        .parseDelimitedWithIOException(PARSER, input, extensionRegistry);
}
public static io.etcd.jetcd.api.Permission parseFrom(
    com.google.protobuf.CodedInputStream input)
    throws java.io.IOException {
    return com.google.protobuf.GeneratedMessageV3
        .parseWithIOException(PARSER, input);
}
public static io.etcd.jetcd.api.Permission parseFrom(
    com.google.protobuf.CodedInputStream
input,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws java.io.IOException {
    return com.google.protobuf.GeneratedMessageV3
        .parseWithIOException(PARSER, input, extensionRegistry);
}

public Builder newBuilderForType() { return newBuilder(); }
public static Builder newBuilder() {

```

```

    return DEFAULT_INSTANCE.toBuilder();
}
public static Builder newBuilder(io.etcd.jetcd.api.Permission prototype) {
    return DEFAULT_INSTANCE.toBuilder().mergeFrom(prototype);
}
public Builder toBuilder() {
    return this == DEFAULT_INSTANCE
        ? new Builder() : new Builder().mergeFrom(this);
}

@java.lang.Override
protected Builder newBuilderForType(
    com.google.protobuf.GeneratedMessageV3.BuilderParent parent) {
    Builder builder = new Builder(parent);
    return builder;
}
/**
 * <pre>
 * Permission is a single entity
 * </pre>
 *
 * Protobuf type {@code authpb.Permission}
 */
public static final class
Builder extends
    com.google.protobuf.GeneratedMessageV3.Builder<Builder> implements
    // @@protoc_insertion_point(builder_implements:authpb.Permission)
    io.etcd.jetcd.api.PermissionOrBuilder {
    public static final com.google.protobuf.Descriptors.Descriptor
        getDescriptor() {
        return io.etcd.jetcd.api.Auth.internal_static_authpb_Permission_descriptor;
    }

    protected com.google.protobuf.GeneratedMessageV3.FieldAccessorTable
        internalGetFieldAccessorTable() {
        return io.etcd.jetcd.api.Auth.internal_static_authpb_Permission_fieldAccessorTable
            .ensureFieldAccessorsInitialized(
                io.etcd.jetcd.api.Permission.class, io.etcd.jetcd.api.Permission.Builder.class);
    }

    // Construct using io.etcd.jetcd.api.Permission.newBuilder()
    private Builder() {
        maybeForceBuilderInitialization();
    }

    private Builder(
        com.google.protobuf.GeneratedMessageV3.BuilderParent parent) {
        super(parent);

```

```

    maybeForceBuilderInitialization();
}
private void maybeForceBuilderInitialization() {
    if (com.google.protobuf.GeneratedMessageV3
        .alwaysUseFieldBuilders) {
    }
}
public Builder clear() {
    super.clear();
    permType_ = 0;

    key_ = com.google.protobuf.ByteString.EMPTY;

    rangeEnd_ = com.google.protobuf.ByteString.EMPTY;

    return this;
}

public com.google.protobuf.Descriptors.Descriptor
    getDescriptorForType() {
    return io.etcd.jetcd.api.Auth.internal_static_authpb_Permission_descriptor;
}

public io.etcd.jetcd.api.Permission getDefaultInstanceForType() {
    return io.etcd.jetcd.api.Permission.getDefaultInstance();
}

public io.etcd.jetcd.api.Permission build() {
    io.etcd.jetcd.api.Permission result = buildPartial();
    if (!result.isInitialized()) {
        throw new UninitializedMessageException(result);
    }
    return result;
}

public io.etcd.jetcd.api.Permission buildPartial()
{
    io.etcd.jetcd.api.Permission result = new io.etcd.jetcd.api.Permission(this);
    result.permType_ = permType_;
    result.key_ = key_;
    result.rangeEnd_ = rangeEnd_;
    onBuilt();
    return result;
}

public Builder clone() {
    return (Builder) super.clone();
}

```



```

public Builder setField(
    com.google.protobuf.Descriptors.FieldDescriptor field,
    java.lang.Object value) {
    return (Builder) super.setField(field, value);
}
public Builder clearField(
    com.google.protobuf.Descriptors.FieldDescriptor field) {
    return (Builder) super.clearField(field);
}
public Builder clearOneof(
    com.google.protobuf.Descriptors.OneofDescriptor oneof) {
    return (Builder) super.clearOneof(oneof);
}
public Builder setRepeatedField(
    com.google.protobuf.Descriptors.FieldDescriptor field,
    int index, java.lang.Object value) {
    return (Builder) super.setRepeatedField(field, index,
value);
}
public Builder addRepeatedField(
    com.google.protobuf.Descriptors.FieldDescriptor field,
    java.lang.Object value) {
    return (Builder) super.addRepeatedField(field, value);
}
public Builder mergeFrom(com.google.protobuf.Message other) {
    if (other instanceof io.etcd.jetcd.api.Permission) {
        return mergeFrom((io.etcd.jetcd.api.Permission)other);
    } else {
        super.mergeFrom(other);
        return this;
    }
}

public Builder mergeFrom(io.etcd.jetcd.api.Permission other) {
    if (other == io.etcd.jetcd.api.Permission.getDefaultInstance()) return this;
    if (other.permType_ != 0) {
        setPermTypeValue(other.getPermTypeValue());
    }
    if (other.getKey() != com.google.protobuf.ByteString.EMPTY) {
        setKey(other.getKey());
    }
    if (other.getRangeEnd() != com.google.protobuf.ByteString.EMPTY) {
        setRangeEnd(other.getRangeEnd());
    }
    this.mergeUnknownFields(other.unknownFields);
    onChanged();
    return this;
}

```

```

public final boolean isInitialized() {
    return true;
}

public Builder mergeFrom(
    com.google.protobuf.CodedInputStream input,
    com.google.protobuf.ExtensionRegistryLite extensionRegistry)
    throws java.io.IOException {
    io.etcd.jetcd.api.Permission parsedMessage = null;
    try {
        parsedMessage = PARSER.parsePartialFrom(input, extensionRegistry);
    } catch (com.google.protobuf.InvalidProtocolBufferException e) {
        parsedMessage = (io.etcd.jetcd.api.Permission) e.getUnfinishedMessage();
        throw e.unwrapIOException();
    } finally {
        if (parsedMessage != null) {
            mergeFrom(parsedMessage);
        }
    }
    return this;
}

private int permType_ = 0;
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public int getPermTypeValue() {
    return permType_;
}
/**
 * <code>.authpb.Permission.Type
permType = 1;</code>
 */
public Builder setPermTypeValue(int value) {
    permType_ = value;
    onChanged();
    return this;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public io.etcd.jetcd.api.Permission.Type getPermType() {
    io.etcd.jetcd.api.Permission.Type result = io.etcd.jetcd.api.Permission.Type.valueOf(permType_);
    return result == null ? io.etcd.jetcd.api.Permission.Type.UNRECOGNIZED : result;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>

```

```

*/
public Builder setPermType(io.etcd.jetcd.api.Permission.Type value) {
    if (value == null) {
        throw new NullPointerException();
    }

    permType_ = value.getNumber();
    onChanged();
    return this;
}
/**
 * <code>.authpb.Permission.Type permType = 1;</code>
 */
public Builder clearPermType() {

    permType_ = 0;
    onChanged();
    return this;
}

private com.google.protobuf.ByteString
key_ = com.google.protobuf.ByteString.EMPTY;
/**
 * <code>bytes key = 2;</code>
 */
public com.google.protobuf.ByteString getKey() {
    return key_;
}
/**
 * <code>bytes key = 2;</code>
 */
public Builder setKey(com.google.protobuf.ByteString value) {
    if (value == null) {
        throw new NullPointerException();
    }

    key_ = value;
    onChanged();
    return this;
}
/**
 * <code>bytes key = 2;</code>
 */
public Builder clearKey() {

    key_ = getDefaultInstance().getKey();
    onChanged();
    return this;
}

```

```

}

private com.google.protobuf.ByteString rangeEnd_ = com.google.protobuf.ByteString.EMPTY;
/**
 * <code>bytes range_end = 3;</code>
 */
public com.google.protobuf.ByteString getRangeEnd() {
    return rangeEnd_;
}
/**
 * <code>bytes range_end = 3;</code>
 */
public Builder setRangeEnd(com.google.protobuf.ByteString value) {

    if (value == null) {
        throw new NullPointerException();
    }

    rangeEnd_ = value;
    onChanged();
    return this;
}
/**
 * <code>bytes range_end = 3;</code>
 */
public Builder clearRangeEnd() {

    rangeEnd_ = getDefaultInstance().getRangeEnd();
    onChanged();
    return this;
}
public final Builder setUnknownFields(
    final com.google.protobuf.UnknownFieldSet unknownFields) {
    return super.setUnknownFieldsProto3(unknownFields);
}

public final Builder mergeUnknownFields(
    final com.google.protobuf.UnknownFieldSet unknownFields) {
    return super.mergeUnknownFields(unknownFields);
}

// @@protoc_insertion_point(builder_scope:authpb.Permission)
}

// @@protoc_insertion_point(class_scope:authpb.Permission)
private static final io.etcd.jetcd.api.Permission DEFAULT_INSTANCE;
static {

```

```

    DEFAULT_INSTANCE = new io.etcd.jetcd.api.Permission();
}

public static io.etcd.jetcd.api.Permission
getDefaultInstance() {
    return DEFAULT_INSTANCE;
}

private static final com.google.protobuf.Parser<Permission>
    PARSER = new com.google.protobuf.AbstractParser<Permission>() {
    public Permission parsePartialFrom(
        com.google.protobuf.CodedInputStream input,
        com.google.protobuf.ExtensionRegistryLite extensionRegistry)
        throws com.google.protobuf.InvalidProtocolBufferException {
        return new Permission(input, extensionRegistry);
    }
};

public static com.google.protobuf.Parser<Permission> parser() {
    return PARSER;
}

@Override
public com.google.protobuf.Parser<Permission> getParserForType() {
    return PARSER;
}

public io.etcd.jetcd.api.Permission getDefaultInstanceForType() {
    return DEFAULT_INSTANCE;
}

}
/**
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 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

```

```

package io.etcd.jetcd.auth;

import io.etcd.jetcd.data.ByteSequence;

/**
 * represents a permission over a range of keys.
 */
public class Permission {

    private final Type permType;
    private final ByteSequence key;
    private final ByteSequence rangeEnd;

    public enum Type {
        READ,
        WRITE,
        READWRITE,
        UNRECOGNIZED,
    }

    public Permission(Type
permType, ByteSequence key, ByteSequence rangeEnd) {
        this.permType = permType;
        this.key = key;
        this.rangeEnd = rangeEnd;
    }

    /**
     * returns the type of Permission: READ, WRITE, READWRITE, or UNRECOGNIZED.
     */
    public Type getPermType() {
        return permType;
    }

    public ByteSequence getKey() {
        return key;
    }

    public ByteSequence getRangeEnd() {
        return rangeEnd;
    }
}

```

## 1.784 eclipse-tycho-core-shared 1.0.0

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## 1.787 libx11 1.6.4-3ubuntu0.2

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# 1.789 netty-codec-socks 4.1.38

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builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/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/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
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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
#
#
EOF
```

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## 1.795 pyyaml 3.12-1build2

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## 1.797 error\_prone\_annotations 2.3.2

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```

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```
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/RestrictedApi.java
*
/opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/FormatMethod.java
```

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```
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/CheckReturnValue.java
*
/opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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```
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
```

jar/com/google/errorprone/annotations/NoAllocation.java  
\* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
\* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java  
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```
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/CompileTimeConstant.java  
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/RequiredModifiers.java  
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java  
*  
/opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/Immutable.java  
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/SuppressPackageLocation.java  
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/ForOverride.java  
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/Var.java  
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/concurrent/LazyInit.java  
* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-  
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
```

## 1.798 jaxen 1.2.0

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Content-type: text/html; charset=ISO-8859-1
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XX
X
    This file is generated from xml source: DO NOT EDIT
XX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

```

```
<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications

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

Thanks to the following people for their input:

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

\*/

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<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764),

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<li><a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>

<li>Additional CertPath testing and validation data from the CertPath

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- <li>Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.</li>
- <li>Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLLeay private keys).</li>
- <li>Victor A. Salaman &lt;salaman&#064;tekno.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>
- <li>Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
- <li>Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
- <li>Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
- <li>Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.</li>
- <li>Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
- <li>Uwe Guenther &lt;uwe&#064;csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
- <li>Markus Bradtke &lt;mab&#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.</li>
- <li>Waclaw Sierek &lt;waclaw.sierek&#064;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
- <li>Ly-Na Phu &lt;lyna.phu&#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
- <li>Stefan K&ouml;psell &lt;sk13&#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see <a href="http://sourceforge.net/projects/jcf/">http://sourceforge.net/projects/jcf/</a></li>
- <li>Carmen Bastiaans &lt;cbastiaa&#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
- <li>Tomas Gustavsson &lt;tomasg&#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
- <li>Eugen Kuleshov &lt;euxx&#064;hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>
- <li>Megan Woods &lt;meganwoods&#064;sekurafile.com&gt; - initial implementation of

ECIES.</li>  
<li>Christian Geuer-Pollmann <a href="mailto:geuerp@apache.org">&lt;geuerp@apache.org&gt;</a> - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>  
<li>Michael M&#252;hle <a href="mailto:michael@mouling.de">&lt;michael@mouling.de&gt;</a> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>  
<li>Michael Mansell <a href="mailto:me@michaelmansell.com">&lt;me@michaelmansell.com&gt;</a> - fixing the parsing of the empty DER set in the ASN.1 library.</li>  
<li>Eike Recker <a href="mailto:eike.recker@gmx.de">&lt;eike.recker@gmx.de&gt;</a> - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>  
<li>Chris Southern <a href="mailto:CSouthern@baltimore.com">&lt;CSouthern@baltimore.com&gt;</a> - fixing misuse of specified provider in the PKCS10 certification request class.</li>  
<li>Sidney Markowitz <a href="mailto:sidney@sidney.com">&lt;sidney@sidney.com&gt;</a> - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>  
<li>Chris Kerr <a href="mailto:ckerr@filonet.ca">&lt;ckerr@filonet.ca&gt;</a> - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>  
<li>Mike Bean <a href="mailto:mbean@lucentradius.com">&lt;mbean@lucentradius.com&gt;</a> - fixing the fall through bug in the IV algorithm parameters class.</li>  
<li>Martin Petraschek <a href="mailto:e9526225@student.tuwien.ac.at">&lt;e9526225@student.tuwien.ac.at&gt;</a> - fixing ASN1 tagging so tag values up to 30 are now supported.</li>  
<li>Jess Garms <a href="mailto:jgarms@yahoo.com">&lt;jgarms@yahoo.com&gt;</a> - fixing 112/168 key size bug for DESede key generation.</li>  
<li>Mike Bremford <a href="mailto:mike@big.faceless.org">&lt;mike@big.faceless.org&gt;</a> - contributing the initial PKCS7 implementation.</li>  
<li>Shankar Srinivasan <a href="mailto:ssr002@yahoo.com">&lt:ssr002@yahoo.com&gt;</a> - S/Mime interoperability testing and debugging.</li>  
<li>Stef Hoeben <a href="mailto:ilsestef@skynet.be">&lt;ilsestef@skynet.be&gt;</a> - adding Montgomery multiplication to the BigInteger class.</li>  
<li>Klaudiusz Ciosk <a href="mailto:kciosk@max.com.pl">&lt;kciosk@max.com.pl&gt;</a> - improving the compatibility of the SMIME package with the Sun JCE.</li>  
<li>Thomas Houtekier <a href="mailto:Thomas.Houtekier@tctrade.net">&lt;Thomas.Houtekier@tctrade.net&gt;</a> - S/Mime testing and debugging. Interoperability with Biztalk.</li>  
<li>Don Hillsberry <a href="mailto:hillsber@dialcorp.com">&lt;hillsber@dialcorp.com&gt;</a> - S/Mime testing and debugging.</li>  
<li>Kazuo Furuya <a href="mailto:kfuruya@infoteria.co.jp">&lt;kfuruya@infoteria.co.jp&gt;</a> - fixing root certificate chaining bug in PKCS12 key store.</li>  
<li>Jason Novotny <a href="mailto:jdnovotny@lbl.gov">&lt;jdnovotny@lbl.gov&gt;</a> - initial work on the openSSL PEM processing.</li>  
<li>Joel Hockey <a href="mailto:joel.hockey@qsipayments.com">&lt;joel.hockey@qsipayments.com&gt;</a> - initial work on the openSSL PEM processing.</li>  
<li>John Steenbruggen <a href="mailto:JohnS@geotrust.com">&lt;JohnS@geotrust.com&gt;</a> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>  
<li>Justin Chapweske <a href="mailto:justin@chapweske.com">&lt;justin@chapweske.com&gt;</a> - ordering patch for Tiger message digest.</li>  
<li>John Serock <a href="mailto:jserock@hotmail.com">&lt;jserock@hotmail.com&gt;</a> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance



of KeyUsage extension return value with security API.</li>

<li>Sascha Weinreuter &lt;tsakach&#064;certivo.net&gt; - fixed SMIME saveChanges() bug.</li>

<li>Andre Wehnert &lt;aw5&#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>

<li>Luigi Lo Iacono &lt;lo\_iacono&#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>

<li>Tim Sakach &lt;tsakach&#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>

<li>Marcus Povey &lt;mpovey&#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>

<li>Sebastian Clau&szlig; &lt;sc2&#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>

<li>Nicolas Bielza &lt;nicolas.bielza&#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>

<li>Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.</li>

<li>Rick Zeldes &lt;rick.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>

<li>Jarek Gawor &lt;gawor&#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>

<li>Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>

<li>Graham Coles &lt;graham.coles&#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>

<li>J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>

<li>Matteo Artuso &lt;matartuso&#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>

<li>Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>

<li>Elmar Sonnenschein &lt;eso&#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>

<li>J&ouml;rn Schwarze &lt;JSchwarze&#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>

<li>Bryan Lovquist &lt;bkl&#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>

<li>Artem Portnoy &lt;Artem\_Portnoy&#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>

<li>Michael H&auml;usler &lt;haeusler&#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>

<li>Johan Seland &lt;johans&#064;netfonds.no&gt; - general toString for BigInteger class.</li>

<li>Johannes Nicolai &lt;johannes.nicolai&#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>

<li>Marc Doberva &lt;marc.doberva&#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>

<li>Jan Dvorak &lt;jan.dvorak&#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>

<li>Joe Cohen &lt;jcohen&#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>

<li>Chris Long&lt;aalong&#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>

<li>Hes Siemelink&lt;hes&#064;izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>

<li>Stefan Puiu&lt;stefanpuiuro&#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier

objects in ASN.1 X.509 package.</li>  
<li>Kaiser Yang &lt;kaiseryang&#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>  
<li>Jiri Urbanec &lt;jiri.urbanec&#064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>  
<li>Justin Kolb &lt;jkolb&#064;pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>  
<li>Ralf Hauser &lt;ralfhauser&#064;gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>  
<li>Michal Dvorak &lt;M\_Dvorak&#064;kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>  
<li>Klaus Greve Fiorentini &lt;Klaus&#064;cpqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.</li>  
<li>Olivier Refalo &lt;Olivier\_Refalo&#064;fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>  
<li>Mariusz Bandola &lt;mariusz.bandola&#064;cryptotech.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>  
<li>Brien Oberstein &lt;brien.oberstein&#064;transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>  
<li>Ian Haywood &lt;ian&#064;haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>  
<li>Jonathan Edwards &lt;s34gull&#064;mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>  
<li>Andrew Thornton &lt;andrew&#064;caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>  
<li>Gregor Leander &lt;gl&#064;bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.509 Name.</li>  
<li>Antoon Bosselaers &lt;Antoon.Bosselaers&#064;esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>  
<li>Peter Sylvester &lt;Peter.Sylvester&#064;edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>  
<li>Doug &lt;ummmmm&#064;myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>  
<li>Francois Staes &lt;fstaes&#064;netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>  
<li>W.R. Dittmer &lt;wdittmer&#064;cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>  
<li>Perez Paz Luis Alberto &lt;laperez&#064;banxico.org.mx&gt; - patch to use of BitString in X.509 name.</li>  
<li>James Wright &lt;James\_Wright&#064;harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>  
<li>Jim Ford &lt;jim&#064;muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>  
<li>Michael Hausler &lt;haeusler&#064;ponton-consulting.de&gt; - extra aliases for provider.</li>  
<li>Sai Pullabhotla &lt;psai&#064;linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>  
<li>Joseph Miller &lt;joseph&#064;digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>  
<li>Lars &lt;xyz&#064;sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>

<li>Jeroen van Vianen &lt;jeroen&#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>  
<li>Jun Sun &lt;JSun&#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>  
<li>Petr Dukem &lt;pdukem&#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>  
<li>Filipe Silva &lt;filipe.silva&#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>  
<li>Alpesh Parmar &lt;alps&#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>  
<li>Jay Gengelbach &lt;jgengelbach&#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>  
<li>Doug  
&lt;doug&#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>  
<li>Matthew Mundy &lt;mmundy1&#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>  
<li>Tom Cargill &lt;cargill&#064profcon.com&gt; - spelling patch in provider.</li>  
<li>Breitenstrom Christian &lt;C.Breitenstrom&#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>  
<li>Zanotti Mirko &lt;zanotti&#064cad.it&gt; - patch to ordered equality test for X509Name.</li>  
<li>Nicola Scandoni &lt;nscandoni&#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>  
<li>Ville Skytt&#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>  
<li>Bruce Gordon &lt;bruce.gordon&#064savvis.net&gt;  
- patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>  
<li>Miles Whiteley &lt;Miles.Whiteley&#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>  
<li>Albert Moliner &lt;amoliner&#064evintia.com&gt; - initial TSP implementation.</li>  
<li>Carlos Lozano &lt;carlos&#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>  
<li>Javier Delgado &lt;javi&#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>  
<li>Joni Hahkala &lt;joni.hahkala&#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>  
<li>Rolf Schillinger&lt;rolf&#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>  
<li>Sergey  
Bahtin &lt;Sergey\_Bahtin&#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>  
<li>Franck Leroy &lt;Franck.Leroy&#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>  
<li>Atsuhiko Yamanaka &lt;ymnk&#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>  
<li>Nickolay Bolshakov &lt;tyrex&#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>  
<li>Soren Hilmer &lt;soren.hilmer&#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>  
<li>Steve Mitchell &lt;mitchell&#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create

negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>

<li>Dirk Eisner &lt;D.Eisner@seeburger.de>; - initial implementation of ISO 78164-4 padding.</li>

<li>Julien Pasquier &lt;julienpasquier@free.fr>; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>

<li>Matteo &lt;matartuso@libero.it>; - sequence patch to ASN1Dump.</li>

<li>Andrew Paterson &lt;andrew.paterson@burnsecs.com>; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>

<li>Vladimir Molotkov &lt;vladimir.n.molotkov@intel.com>; - extensive provider exception handling compliance testing.</li>

<li>Florin Kollan &lt;adlocflo@web.de>; - fix to ElGamalKeyParameters equality testing.</li>

<li>Pavel Vassiliev &lt;paulvas@gmail.com>; - Initial GOST28147Mac implementation.</li>

<li>Tom Pesman &lt;tom@t2nux.net>; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>

<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@gmail.com>; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>

<li>Arndt Hasch &lt;Arndt.Hasch@maxence.de>; - additional fix for partial reading with new style PGP packets.</li>

<li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com>; - fix for 31 byte issue and exception throwing by Whirlpool.</li>

<li>David M. Lee &lt;dmlee@crossroads.com>; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>

<li>Mike Dillon &lt;md5@embody.org>; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>

<li>tu-vi cung &lt;t2cung@hotmail.com>; - patch for out of bounds problem in getDecoderStream method.</li>

<li>Chris Schultz &lt;cschultz@gmail.com>; - fix for InputStream constructor for X509V2AttributeCertificate.</li>

<li>David M. Lee &lt;dmlee@crossroads.com>; - implementation assistance with streaming CMS classes.</li>

<li>Joel Rees &lt;rees@ddcom.co.jp>; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>

<li>Francesc Sau &lt;francesc.sau@partners.netfocus.es>; - micro fix for tsp Accuracy class.</li>

<li>Larry Bugbee &lt;bugbee@mac.com>; - initial ECNR implementation.</li>

<li>Remi Blancher &lt;Remi.Blancher@keynectis.com>; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>

<li>Brian O'Rourke &lt;brianorourke@gmail.com>; - patch for signature creation time override in OpenPGP.</li>

<li>Andreas Schwier &lt;andreas.schwier@cardcontact.de>; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>

<li>David Josse &lt;david.josse@transacttools.net>; - Patch for trailer function in version 2 signature packets.</li>

<li>Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp>; - RFC 3280 updates to policy processing in the CertPath

validator. Additional test data not covered by NIST.</li>  
<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>  
<li>Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>  
<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>  
<li>Olaf Keller, &lt;olaf.keller.bc&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>  
<li>J&ouml;rg Eichhorn &lt;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>  
<li>Karsten Ohme &lt;widerstand&#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings.  
Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.  
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>  
<li>Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>  
<li>John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>  
<li>Stefan Neusatz Guillen &lt;sneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>  
<li>Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>  
<li>Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>  
<li>Chris Viles &lt;chris\_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>  
<li>Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>  
<li>Lijun Liao &lt;https://github.com/xipki&gt; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li>  
<li>Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>  
<li>Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>  
<li>Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>  
<li>Xavier Le Vourch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.</li>

<li>Erik Tews &lt;e\_tews@informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>

<li>Thomas Dixon &lt;reikomusha@gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>

<li>Frank Cornelis &lt;info@frankcornelis.be&gt;;- addition of crlAccessMethod in X509ObjectIdentifiers.</li>

<li>Rui Joaquim &lt;rjoaquim@cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>

<li>David Stacey &lt;DStacey@allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>

<li>Martijn Brinkers &lt;list@mitm.nl&gt;;  
- better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>

<li>Julius Davies &lt;juliusdavies@gmail.com&gt; - additional modes and algorithm support in PEMReader</li>

<li>Matthias &lt;g@rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>

<li>Olga Kaethler &lt;olga.kaethler@hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>

<li>Germano Rizzo &lt;germano.rizzo@gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>

<li>N&uacute;ria Mar&iacute; &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>

<li>Janis Schuller &lt;js@tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>

<li>Michael Samblanet &lt;mike@samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>

<li>Mike StJohns &lt;mstjohns@comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>

<li>Ramon Keller &lt;ramon.keller@gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>

<li>Mark Nelson &lt;mark@nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>

<li>Eugene Golushkov &lt;eugene\_gff@ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>

<li>Julien Pasquier &lt;julienpasquier@free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>

<li>Peter Knopp &lt;pknopp@mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>

<li>Jakub Gwozdz &lt;gwozdziu@rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>

<li>Bartosz Malkowski &lt;bmalkow@tigase.org&gt;; -  
initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>

<li>Tal Yacobi &lt;tal.yacobi@octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>

<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>

<li>Andrey Pavlenko &lt;andrey.a.pavlenko@gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>

<li>J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>

<li>Matthew Stevenson &lt;mavricknz@yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>

<li>Gabriele Contini &lt;gcontini@hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>

<li>Roelof Naude &lt;roelof.naude@epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>

- <li>Patrick Peck  
&lt;peck&#064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
- <li>Michael LeMay &lt;lemaymd&#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
- <li>Alex Dupre &lt;ale&#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]</li>
- <li>Michael Schoene &lt;michael&#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
- <li>Ion Larra&ntilde;aga &lt;ilarra&#064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>
- <li>Bob Kerns &lt;bob.kerns&#064positscience.com&gt; fix to hashCode for X509CertificateObject.</li>
- <li>Stefan Meyer &lt;stefan.meyer&#064ewe.de&gt; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
- <li>Robert  
J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
- <li>Rui Hodai &lt;rui&#064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
- <li>Emir Bucalovic &lt;emir.bucalovic&#064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
- <li>Torbjorn Svensson &lt;tobbe79&#064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
- <li>Paul FitzPatrick &lt;bouncycastle\_pfitz&#064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
- <li>Henrik Andersson &lt;k.henrik.andersson&#064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>
- <li>Cagdas Cirit &lt;cagdasirit&#064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>
- <li>Harakiri &lt;harakiri\_23&#064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>
- <li>Pedro Henriques &lt;pmahenriques&#064gmail.com&gt;  
explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.</li>
- <li>Lothar Kimminger &lt;job&#064kimminger.de&gt; verbose mode for ASN1Dump, support for DERExternal.</li>
- <li>Richard Farr &lt;rfarr.se&#064gmail.com&gt; initial SRP-6a implementation.</li>
- <li>Thomas Castiglione &lt;castiglione&#064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>
- <li>Elisabetta Romani &lt;eromani&#064sogeti.it&gt; patch for recognising multiple counter signatures.</li>
- <li>Robin Lundgren &lt;r737lundgren&#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>
- <li>Petr Kadlec &lt;mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>
- <li>Andreas Antener &lt;antener\_a&#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
- <li>Harendra Rawat &lt;hsrawat&#064yahoo.com&gt; fix for BERConstructedOctetString.</li>
- <li>Rolf Lindemann &lt;lindemann&#064trustcenter.de&gt; patch for PKCS12  
key store to support more flexible attribute specifications [#BMA-42].</li>
- <li>Alex Artamonov &lt;alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
- <li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
- <li>Chris Cole &lt;chris\_h\_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
- <li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>

- <li>Michael &lt;emfau@t-online.de>; correction of field error in getResponse method in CertRepMessage.</li>
- <li>Trevor Perrin &lt;trevor@cryptography.com>; addition of constant time equals to avoid possible timing attacks.</li>
- <li>Markus Kil&aring;s &lt;markus@primekey.se>; several enhancements to TimeStampResponseGenerator.</li>
- <li>Dario Novakovic &lt;darionis@yahoo.com>; fix for NPE when checking revocation reason on CRL without extensions.</li>
- <li>Michael Smith &lt;msmith@cbnco.com>; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
- <li>Andrea Zilio &lt;andrea.zilio@gmail.com>; fix for PEM password encryption of private keys.</li>
- <li>Alex Birkett &lt;alex@birkett.co.uk>; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
- <li>Wayne Grant &lt;waynedgrant@gmail.com>; additional OIDs for PCKS10 and certificate generation support.</li>
- <li>Frank Cornelis &lt;info@frankcornelis.be>; additional support classes for CADES, enhancements to OCSP classes.</li>
- <li>Jan Dittberner &lt;jan@dittberner.info>; addHeader patch for SMIME generator.</li>
- <li>Bob McGowan &lt;boab.mcgoo@btinternet.com>; patch to support different object and mgf digests in PSS signing.</li>
- <li>Ivo Matheis &lt;i.matheis@seeburger.de>; fix to padding verification in ISO-9796-1.</li>
- <li>Marco Sandrini &lt;nessche@gmail.com>; patch to add IV to ISO9797Alg3Mac.</li>
- <li>Alf Malf &lt;alfmalf@hotmail.com>; removal of unnecessary limit in CMSContentInfoParser.</li>
- <li>Alfonso Massa &lt;alfonso.massa@insiel.it>; contributions to CMS time stamp classes.</li>
- <li>Giacomo Boccardo &lt;gboccardo@unimaticaspa.it>; initial work on CMSTimeStampedDataParser.</li>
- <li>Arnis Tartu &lt;arnis@ut.ee>; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
- <li>Janusz Sikocinski &lt;J.Sikocinski@gdzie.pl>; addition of Features subpacket support to OpenPGP API.</li>
- <li>Juri Hudolejev &lt;jhudolejev@gmail.com>; JavaDoc fix to CMSSignedDataParser.</li>
- <li>Liane Velten &lt;liane.velten@hjp-consulting.com>; fine tuning of code for DHParameters validation.</li>
- <li>Shawn Willden &lt;swillden@google.com>; additional functionality to PGPKeyRing.</li>
- <li>Atanas Krachev &lt;akrachev@gmail.com>; added support for revocation signatures in OpenPGP.</li>
- <li>Mickael Laiking &lt;mickael.laiking@keynectis.com>; initial cut of EAC classes.</li>
- <li>Tim Buktu &lt;tibuktu@hotmail.com>; Initial implementation of NTRU signing and encryption.</li>
- <li>Bernd &lt;rbernd@gmail.com>; Fix for open of PGP literal data stream with UTF-8 naming.</li>
- <li>Steing Inge Morisbak &lt;stein.inge.morisbak@BEKK.no>; Test code for lower case Hex data in PEM headers.</li>
- <li>Andreas Schmid &lt;andreas.schmid@tngtech.com>; Additional expiry time check in PGPPublicKeys.</li>
- <li>Phil Steitz &lt;phil.steitz@gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
- <li>Ignat Korchagin &lt;ignat.korchagin@gmail.com>; Initial implementation of DSTU-4145-2002, long



hash fix for DSTU-4145-2002.</li>  
<li>Petar Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>  
<li>Daniel Fitzpatrick &lt;daniel.f.nwr@gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>  
<li>Andy Neilson &lt;Andy.Neilson@quest.com&gt;a further patches to deal with multiple providers and PEMReader.</li>  
<li>Ted Shaw &lt;xiao.xj@gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>  
<li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>  
<li>Kenny Root &lt;kenny@the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>  
<li>Maarten Bodewes &lt;maarten.bodewes@gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>  
<li>Philip Clay &lt;pilf\_b@yahoo.com&gt; Initial implementation of J-PAKE.</li>  
<li>Brian Carlstrom &lt;bdc@carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>  
<li>Samuel Lid&eacute;n Borell &lt;samuel@primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>  
<li>Sergio Demian Lerner &lt;sergiolerner@certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>  
<li>Tim Whittington &lt;Tim.Whittington@orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>  
<li>Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>  
<li>Andrey Zhozhin &lt;zhozhin@xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>  
<li>Sergey Tiunov &lt;t5555d@gmail.com&gt; initial cut of DVCS classes.</li>  
<li>Damian Kolasa &lt;fatfredy@gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>  
<li>Ash Hughes &lt;ashley.hughes@blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>  
<li>Daniel Hirscher &lt;dev@daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>  
<li>Daniele Ricci &lt;daniele.athome@gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>  
<li>Matti Aarnio &lt;matti.aarnio@methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.</li>  
<li>Babak Najafi &lt;bnajafi@akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation

problems.</li>  
<li>Eric Mueller &lt;eric.mueller@#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>  
<li>Mathias Herberts &lt;Mathias.Herberts@#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>  
<li>Daniil Ivanov &lt;daniil.ivanov@#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>  
<li>Daniele Grasso  
&lt;daniele.grasso86@#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>  
<li>Andrey Utkin &lt;cindrhc@#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>  
<li>Arnis Tartu &lt;arnis@#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>  
<li>AxelVDB &lt;axel-vdb@#064riseup.net&gt; initial implementation of Shacal2.</li>  
<li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>  
<li>Waldemar Dick &lt;wdick@#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>  
<li>Sid Steward &lt;sid.steward@#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>  
<li>Alex Klyubin &lt;klyubin@#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>  
<li>Jonathan Gillett &lt;gsoc.student@#064gmail.com&gt; Initial support for block cipher IVs in ISEngine, IES MAC length check bug fix.</li>  
<li>Andreas Reiter &lt;andreas.reiter@#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>  
<li>Kieran Miller &lt;kieran.miller@#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>  
<li>Oliver Ehli&lt;ehli@#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>  
<li>Daniel Heldt&lt;Daniel.Heldt@#064cryptovision.com&gt; Initial support for encodable state message digests</li>  
<li>Robert Bushman &lt;bouncycastle@#064traxel.com&gt; Clean up of DirectKeySignature example.</li>  
<li>Maurice Aarts&lt;aarts@#064risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>  
<li>Franziskus Kiefer&lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>  
<li>KB Sriram&lt;mail\_kb@#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>  
<li>Marco Schulze&lt;marco@#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>  
<li>Martin Schaef&lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.</li>  
<li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>  
<li>Tobias Wich&lt;tobias.wich@#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>  
<li>Hauke Mehrtens&lt;hauke@#064hauke-m.de&gt; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>  
<li>Daniel Zimmerman&lt;dmz@#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>  
<li>Jens Kapitza&lt;j.kapitza@#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>  
<li>Johan Eklund&lt;johan@#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>  
<li>nikosn&lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>  
<li>Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original

version  
of Blake2bDigest.</li>  
<li>Derek Atkins &lt;derek@#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>  
<li>Peter Jr Halicky &lt;peto@#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>  
<li>IartiguePierre&lt;https://github.com/IartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>  
<li>Thomas Belot&lt;thomas.belot+BC@#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>  
<li>Rich DiCroce&lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>  
<li>Bj&ouml;rn Kautler&lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>  
<li>Dominik Sch&uuml;rmann&lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>  
<li>Michael &lt;MSKnete@#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys.</li>  
<li>Tobias Wagner &lt;tobias.wagner@#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>  
<li>Sergio Giro &lt;sgiro@#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>  
<li>bschuette&lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>  
<li>Leonard Dallot&lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>  
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle@#064lxtrême.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>  
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>  
<li>Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>  
<li>Benoit Charles &lt;benoit.charles@#064opentrust.com&gt; Fix for IES data length check on decryption.</li>  
<li>Niko &lt;nfink95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>  
<li>akwizgran&lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>  
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>  
<li>Lukasz Deputat &lt;lukasz.deputat@#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].</li>  
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>  
<li>Andr&eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>  
<li>Slawomir Jaranowski&lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>  
<li>Andrey Vasilyev&lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>  
<li>William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>

- <li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
- <li>Joseph Naegele &lt;jnaegele&#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
- <li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNAfUtil.</li>
- <li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
- <li>Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
- <li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
- <li>Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
- <li>Artem Storozhuk &lt;storojs72&#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>
- <li>Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.</li>
- <li>Evangelos Karatsiolis &lt;ekaratsiolis&#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
- <li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
- <li>mtausig  
&lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
- <li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>
- <li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
- <li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
- <li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
- <li>Artem Storozhuk &lt;storojs72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
- <li>Andreas Glaser &lt;andreas.glaser&#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>
- <li>codeborne  
&lt;https://github.com/cbpx&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
- <li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
- <li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
- <li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
- <li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2\*\*64-127 to 2\*\*64.</li>
- <li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>
- <li>Scott Woodward &lt;scott&#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
- <li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
- <li>chris mccown &lt;0xchrismccown&#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
- <li>ZZMarquis  
&lt;https://github.com/ZZMarquis&gt; offset patch for SM2 decrypt.</li>
- <li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>

- <li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
- <li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
- <li>Adam Vartanian &lt;https://github.com/flooeey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
- <li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
- <li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
- <li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
- <li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
- <li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
- <li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
- <li>fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.</li>
- <li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
- <li>Andreas Gadermaier &lt;up.gadermaier@#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
- <li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code.</li>
- <li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
- <li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode.</li>
- <li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>

</ul>

</object>

</html>

<html>

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```

```
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# 1.816 udev 237-3ubuntu10.11

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Upstream-Contact: systemd-devel@lists.freedesktop.org

Source: <https://www.freedesktop.org/wiki/Software/systemd/>

Files: debian/\*

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src/udev/udevadm-hwdb.c

src/udev/udev-builtin.c

src/udev/udev-builtin-net\_id.c

src/udev/udev-builtin-net\_setup\_link.c

src/udev/udev-builtin-hwdb.c

src/udev/udev-builtin-btrfs.c

src/udev/udev-builtin-keyboard.c

src/udev/net/link-config.h

src/udev/net/link-config.c

src/udev/net/ethtool-util.c

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## 1.817 jdk-zulu 8.40.0.25



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 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */
```

```
package java.security;
```

```
/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a { @code java.io.FilePermission } object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * { @code java.lang.RuntimePermission },
 * that
 * don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
```

- \* the { @code implies } method to compare Permissions. Basically,
- \* "permission p1 implies permission p2" means that
- \* if one is granted permission p1, one is naturally granted permission p2.
- \* Thus, this is not an equality test, but rather more of a
- \* subset test.
- \*
- \* <P> Permission objects are similar to String objects in that they
- \* are immutable once they have been created. Subclasses should not
- \* provide methods that can change the state of a permission
- \* once it has been created.
- \*
- \* @see Permissions
- \* @see PermissionCollection
- \*
- \*
- \* @author Marianne Mueller
- \* @author Roland Schemers
- \*/

```
public abstract class Permission implements Guard, java.io.Serializable {
```

```
    private static final long serialVersionUID = -5636570222231596674L;
```

```
    private String name;
```

```
    /**
```

```
     * Constructs a permission  
with the specified name.
```

```
     *
```

```
     * @param name name of the Permission object being created.
```

```
     *
```

```
    */
```

```
    public Permission(String name) {
```

```
        this.name = name;
```

```
    }
```

```
    /**
```

```
     * Implements the guard interface for a permission. The  
     * { @code SecurityManager.checkPermission } method is called,  
     * passing this permission object as the permission to check.  
     * Returns silently if access is granted. Otherwise, throws  
     * a SecurityException.
```

```
     *
```

```
     * @param object the object being guarded (currently ignored).
```

```
     *
```

```
     * @throws SecurityException
```

```
     * if a security manager exists and its
```

```

*     {@code checkPermission} method doesn't allow access.
*
* @see Guard
* @see GuardedObject
* @see SecurityManager#checkPermission
*
*/
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *
 * <p>The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with
this object.
 *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <P>

```

```

* The required { @code hashCode } behavior for Permission Objects is
* the following:
* <ul>
* <li>Whenever it is invoked on the same Permission object more than
* once during an execution of a Java application, the
* { @code hashCode } method
* must consistently return the same integer. This integer need not
* remain consistent from one execution of an application to another
* execution of the same application.
* </li>If two Permission objects are equal according to the
* { @code equals }
* method, then calling the { @code hashCode } method on each of the
* two Permission objects must produce the same integer result.
* </ul>
*
* @return a hash code value for this
object.
*/

```

```

public abstract int hashCode();

```

```

/**
* Returns the name of this Permission.
* For example, in the case of a { @code java.io.FilePermission },
* the name will be a pathname.
*
* @return the name of this Permission.
*
*/

```

```

public final String getName() {
    return name;
}

```

```

/**
* Returns the actions as a String. This is abstract
* so subclasses can defer creating a String representation until
* one is needed. Subclasses should always return actions in what they
* consider to be their
* canonical form. For example, two FilePermission objects created via
* the following:
*
* <pre>
* perm1 = new FilePermission(p1,"read,write");
* perm2 = new FilePermission(p2,"write,read");
* </pre>
*
* both return

```

```

* "read,write" when the { @code getActions } method is invoked.
*
* @return the actions of this Permission.
*
*/

public abstract
String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the { @code PermissionCollection.implies } method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " \\" + name + "\\"";
    } else {
        return "(" + getClass().getName() + " \\" + name +
            "\\\" + actions + "\\"";
    }
}
}
}
/**

```

```

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*/
```

```
package java.security.acl;
```

```
/**  
 * This interface represents a permission, such as that used to grant  
 * a particular type of access to a resource.  
 *  
 * @author Satish Dharmaraj  
 */  
public interface Permission {  
  
    /**  
     * Returns true if the object passed matches the permission represented  
     * in this interface.  
     *  
     * @param another the Permission object to compare with.  
     *  
     * @return true if the Permission objects are equal, false otherwise  
     */  
    public boolean equals(Object another);  
  
    /**  
     * Prints a string representation of this permission.  
     */  
}
```

```
* @return the string representation of the permission.  
*/  
public String toString();  
  
}
```

# 1.818 metrics 4.0.2

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## 1.826 kubernetes-model-common 4.6.3

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

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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- a) Accompany



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

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

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The

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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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## Sockets

-----

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE

Project, <http://www.wide.ad.jp/>. ::

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Asynchronous socket services  
-----

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Execution tracing

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

The `:mod:`xmlrpc.client`` module contains the following notice::

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test\_epoll

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Select kqueue

-----

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphhash24/little)

djb (supercop/crypto\_auth/siphhash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

-----

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on

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cfuhash

-----

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# 1.837 diameter-core-docs-sources-mobicents

## 1.7.0.74

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```

```
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```

```
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```

```
package cmd
```

```
func initGpl2() {  
    Licenses["gpl2"] = License{  
        Name: "GNU General Public License 2.0",  
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},  
        Header: `  
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}
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```

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```
func initBsdClause3() {
    Licenses["bsd"] = License{
        Name:      "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
```

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`  
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package cmd

```

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the
// header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name      string // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text      string // License text data
    Header    string // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.

```

```

if viper.IsSet("license.header") || viper.IsSet("license.text")
{
    return License{Header: viper.GetString("license.header"),
        Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank
string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
}

for key, lic := range Licenses {

```

```
for _, match := range lic.PossibleMatches {
    if strings.EqualFold(name, match) {
        return key
    }
}

return ""
}
```

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```
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```

```
package cmd
```

```
func initGpl3() {
```

```
    Licenses["gpl3"] = License{
```

```
        Name:          "GNU General Public License 3.0",
```

```
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
```



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```
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Copyright (C) <year> <name of author>
```

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```
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```

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<<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

```
`  
`  
}  
`  
}
```

package cmd

```
func initLgpl() {
```

```
Licenses["lgpl"] = License{
```

```
    Name:      "GNU Lesser General Public License",
```

```
    PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
```

```
    Header: `
```

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU Lesser General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
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```

```
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```

```
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```

```
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```

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```

```
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```



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```
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.`,
}
}
package cmd
```

```
func initAgpl() {
Licenses["agpl"] = License{
Name:      "GNU Affero General Public License",
PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
Header: `
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the Free Software Foundation, either version 3 of the License, or
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```

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`  
}
```

```
}
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```

```
// Parts inspired by https://github.com/ryanuber/go-license
```

```
package cmd
```

```
func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `
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```

```
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```

```
Text: `
```

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```

```
package cmd
```

```
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    Licenses["mit"] = License{
        Name:      "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `
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```

```
package cmd
```

```
func initBsdClause2() {  
    Licenses["frebsd"] = License{  
        Name: "Simplified BSD License",  
        PossibleMatches: []string{"frebsd", "simpbsd", "simple bsd", "2-clause bsd",  
            "2 clause bsd", "simplified bsd license"},  
        Header: `All rights reserved.`  
    }  
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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# 1.853 go-colortext v0.0.0-20160507010035-511bc4f42ccd

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

# 1.857 go-autorest v0.9.0

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## 1.868 bucket4j-core 4.4.1

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Version 3, 29 June 2007

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#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.879 elfutils 0.170-0.4ubuntu0.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi\_err\_generic.et
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- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
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- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid\_ops.c
- lib/gssapi/spnego/gssapiP\_spnego.h
- lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop\_hdr.h
- kadmin/server/ipropd\_svc.c



lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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lib/krb5/kadm5/kadm_host_srv_names.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in  
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c

lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropr\_rpc.c  
slave/kproplog.c

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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# 1.884 pam 1.1.8-3.6ubuntu2.18.04.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam\_motd/pam\_motd.c

```
-----  
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c  
+++ pam.ubuntu/modules/pam_motd/pam_motd.c  
@@ -73,6 +73,61 @@  
close(fd);  
}  
  
+int display_legal(pam_handle_t *pamh)  
+{  
+ int retval = PAM_IGNORE, rc;  
+ char *user = NULL;  
+ char *dir = NULL;  
+ char *flag = NULL;  
+ struct passwd *pwd = NULL;  
+ struct stat s;  
+ int f;  
+ /* Get the user name to determine if we need to print the disclaimer */  
+ rc = pam_get_item(pamh, PAM_USER, &user);  
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')  
+ {  
+ PAM_MODUTIL_DEF_PRIVS(privs);  
+  
+  
+ /* Get the password entry */  
+ pwd = pam_modutil_getpwnam (pamh, user);  
+ if (pwd != NULL)  
+ {  
+ if (pam_modutil_drop_priv(pamh, &privs, pwd)) {  
+ pam_syslog(pamh, LOG_ERR,  
+ "Unable to change UID to %d temporarily\n",  
+ pwd->pw_uid);  
+ retval = PAM_SESSION_ERR;  
+ goto finished;  
+ }  
+  
+ if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
```

```

+     goto finished;
+     if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+         goto finished;
+
+     if (stat(flag, &s) != 0)
+     {
+         display_file(pamh, "/etc/legal");
+         mkdir(dir, 0700);
+         f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+             S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+         if (f>=0) close(f);
+     }
+
+finished:
+     if (pam_modutil_regain_priv(pamh,
+ &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+             "Unable to change UID back to %d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+
+     _pam_drop(flag);
+     _pam_drop(dir);
+ }
+ }
+ return retval;
+ }

```

PAM\_EXTERN

```

int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)

```

```

@@ -116,6 +171,9 @@

```

```

    /* Display the updated motd */
    display_file(pamh, motd_path);

```

```

+ /* Display the legal disclaimer only if necessary */
+     retval = display_legal(pamh);
+
+     return retval;
+ }

```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on  
Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from <ftp://ftp.kernel.org/pub/linux/libs/pam/pre/>

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# 1.885 jdiameter-api 1.7.1-123

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# 1.886 jcommon 1.3.1

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## 1.892 mobicents-diameter-mux-parent

### 1.7.0.74

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## 1.894 plugin-properties 2.0.3

## 1.895 mobicents-diameter-mux-sar-jboss-5

### 1.7.0.74

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

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

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

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2.1	2.0+1.6.1	2001	PSF	no
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2.1.2	2.1.1	2002	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 <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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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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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c'  
for details.
```

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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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The End

# 1.916 openjdk-jre 1.8.0u222

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## c-libutl 20160225

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```
</pre>
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<pre>
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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### THE BASIC LIBRARY FUNCTIONS

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zlib.h -- interface of the 'zlib' general purpose compression library  
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- \* Gavin Panella
- \* Martin Pool
- \* Vincent Ladeuil
- \* Nikola ipanov

and are collectively referred to as "testtools developers".

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tomb - support for clean goroutine termination in Go.

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the

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```
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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Most GNU software, including some libraries, is covered by the

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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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

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

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a.

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

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## 1.937 cpp 8.3.0-6ubuntu1~18.04.1

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## 1.938 jackson-datatype-jdk8 2.9.6

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\$Id: Launcher.java 108 2004-11-02 18:41:08Z mhw \$

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\$Id: DefaultClassRealm.java 94 2004-08-09 22:00:16Z jvanzyl \$

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jar/org/codehaus/classworlds/uberjar/protocol/jar/Handler.java  
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\$Id: Entry.java 89 2004-07-18 00:40:00Z dandiep \$

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\$Id: Configurator.java 108 2004-11-02 18:41:08Z mhw \$

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\$Id: UberJarRealmClassLoader.java 112 2004-11-03 17:37:23Z mhw \$

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\$Id: NoSuchRealmException.java 78 2004-07-01 13:59:13Z jvanzyl \$

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\$Id: ClassRealm.java 94 2004-08-09 22:00:16Z jvanzyl \$

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## 1.950 libpkit 0.23.9-2

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Format: <http://dep.debian.net/deps/dep5>

Upstream-Name: p11-kit

Source: <http://p11-glue.freedesktop.org/p11-kit.html>

Files: \*

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Files: common/argv.c common/argv.h common/hash.h  
trust/oid.c trust/oid.h  
trust/pem.c trust/pem.h common/argv.c common/argv.h common/pkcs11x.h  
common/pkcs11i.h  
common/test-constants.c common/test-hash.c  
p11-kit/pkcs11.h p11-kit/test-managed.c  
trust/builder.c  
trust/builder.h trust/digest.h trust/module.c trust/module.h trust/pem.c  
trust/pem.h trust/oid.c trust/oid.h trust/parser.h  
trust/session.c trust/session.h trust/frob-cert.c  
trust/frob-eku.c trust/frob-token.c  
trust/test-digest.c trust/test-enumerate.c  
trust/test-index.c trust/test-module.c  
trust/test-oid.c  
trust/test-parser.c trust/test-pem.c trust/test-token.c  
trust/token.c trust/token.h trust/test-trust.c  
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common/test.h common/test-compat.c common/test-tests.c  
common/tool.h p11-kit/deprecated.h  
p11-kit/docs.h p11-kit/log.h p11-kit/modules.h p11-kit/proxy.h  
p11-kit/test-log.c trust/anchor.c trust/anchor.h  
trust/enumerate.c trust/enumerate.h trust/extract.c  
trust/extract-cer.c trust/extract.h trust/extract-jks.c  
trust/extract-openssl.c trust/extract-pem.c trust/index.c  
trust/index.h trust/list.c trust/list.h trust/persist.c  
trust/persist.h trust/save.c trust/save.h trust/frob-bc.c  
trust/frob-ext.c trust/frob-pow.c  
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Comment: make\_private\_security\_descriptor() and the helper functions were  
\* copied from putty/windows/winsecur.c in the PuTTY source code as of  
\* git commit 12bd5a6c722152aa27f24598785593e72b3284ea.  
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p11-kit/rpc-message.c p11-kit/rpc-message.h p11-kit/rpc-server.c  
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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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##

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lib/extras/randomart.\*

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* /opt/cola/permits/1110946694_1606874557.49/0/client-java-6-0-1-sources-
jar/io/kubernetes/client/util/KubeConfig.java
* /opt/cola/permits/1110946694_1606874557.49/0/client-java-6-0-1-sources-
jar/io/kubernetes/client/util/Config.java
*
/opt/cola/permits/1110946694_1606874557.49/0/client-java-6-0-1-sources-
jar/io/kubernetes/client/util/authenticators/Authenticator.java
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jar/io/kubernetes/client/util/authenticators/GCPAuthenticator.java
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# 1.954 jre 1.8.0u192

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```
## zlib v1.2.11
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### xwd utility  
<pre>
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Mesa 3-D  
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :
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## jopt-simple v5.0.4

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## 1.957 client-java-api 6.0.1

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## 1.958 llvm 9.0.0

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; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

```
define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:      // %bb.0:
; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:  mov v0.d[1], v0.d[0]
; CHECK-NEXT:  ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
```

```
%Cmp56 = icmp sgt i8 undef, %L34
```

```
br label %CF246
```

```
CF246:                                ; preds = %CF246, %BB
```

```
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
```

```
br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
```

```
store i8 %S1163, i8* %0
```

```
br label %CF248
```

```
}
```

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; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=x86\_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s

;

; D31946

; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.

; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)

declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {

; CHECK-LABEL: TestSelect:

; CHECK: # %bb.0:

; CHECK-NEXT: pushq %rbx

; CHECK-NEXT: .cfi\_def\_cfa\_offset 16

; CHECK-NEXT: subq \$32, %rsp

; CHECK-NEXT: .cfi\_def\_cfa\_offset 48

; CHECK-NEXT: .cfi\_offset %rbx, -16

; CHECK-NEXT: movaps %xmm1, {[[-0-9]+]}(%r{[sb]}) # 16-byte Spill

; CHECK-NEXT: movaps %xmm0, (%rsp) # 16-byte Spill

; CHECK-NEXT: callq \_\_gttf2

; CHECK-NEXT: movl %eax, %ebx

; CHECK-NEXT: movaps (%rsp), %xmm0 # 16-byte Reload

; CHECK-NEXT: movaps {[[-0-9]+]}(%r{[sb]}) # 16-byte Reload

; CHECK-NEXT: movaps %xmm1, %xmm1 # 16-byte Reload

; CHECK-NEXT: callq \_\_subtf3

; CHECK-NEXT: testl %ebx, %ebx

; CHECK-NEXT: jg .LBB0\_2

; CHECK-NEXT: # %bb.1:

; CHECK-NEXT: xorps %xmm0, %xmm0

; CHECK-NEXT: .LBB0\_2:

; CHECK-NEXT: addq \$32, %rsp

; CHECK-NEXT: .cfi\_def\_cfa\_offset 16

; CHECK-NEXT: popq %rbx

; CHECK-NEXT: .cfi\_def\_cfa\_offset 8

; CHECK-NEXT: retq

%cmp = fcmp ogt fp128 %a, %b

%sub = fsub fp128 %a, %b

```

%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:    # %bb.0:
; CHECK-NEXT:  andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:  retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:    # %bb.0:
; CHECK-NEXT:  andps {{.*}}(%rip), %xmm1
; CHECK-NEXT:  andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:  orps %xmm1, %xmm0
; CHECK-NEXT:  retq
%res = call
fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:    # %bb.0:
; CHECK-NEXT:  pushq %rax
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  movaps %xmm0, %xmm1
; CHECK-NEXT:  callq __multf3
; CHECK-NEXT:  xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT:  popq %rax
; CHECK-NEXT:  .cfi_def_cfa_offset 8
; CHECK-NEXT:  retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000000000008000000000000000, %mul
ret fp128 %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

```

```
}
```

```
define internal void @innerNoAttribute() {  
  ret void  
}
```

```
; We should not add an attribute during inlining. No attribute means unknown.  
; Inlining doesn't change the fact that we don't know anything about this  
; function.
```

```
define void @outerNoAttribute() {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {  
  call void @innerSmall()  
  ret void  
}
```

```
; We should remove the attribute after inlining since the callee's  
; vector width requirements are unknown.
```

```
define void @outerAttribute() "min-legal-vector-width"="128" {  
  call void @innerNoAttribute()  
  ret void  
}
```

```
; CHECK: define void @outerNoAttribute() {  
; CHECK:  
  define void @outerConflictingAttributeSmall() #0  
; CHECK: define void @outerConflictingAttributeLarge() #0  
; CHECK: define void @outerAttribute() {  
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
```

-----  
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; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types  
; cause LSR to assume type "void" for the memory type. This would then  
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8\*, i8, %union.anon.0 }

%union.anon.0 = type { i8\* }

define hidden fastcc void @fred() unnamed\_addr #0 {  
entry:

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry

br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph

%lsr.iv = phi %struct.0\* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]

switch i32 undef, label %exit [

i32 1, label %sw.bb.i

i32 2, label %sw.bb3.i

]

sw.bb.i: ; preds = %while.body

unreachable

sw.bb3.i: ; preds = %while.body

unreachable

exit:

; preds = %while.body

switch i32 undef, label %exit.2 [

i32 1, label %sw.bb.i17

```

    i32 @label_sw_bb3_i20
]

sw.bb.i17:                                ; preds = %exit
%0 = bitcast @struct.0* %lshr.iv to i32*
%1 = load i32, @i32* %0, align 4
unreachable

sw.bb3.i20:                                ; preds = %exit
%2 = bitcast @struct.0* %lshr.iv to i8**
%3 = load i8*, @i8** %2, align 4
unreachable

exit.2:                                    ; preds = %exit
%cgep22 = getelementptr @struct.0, @struct.0* %lshr.iv, i32 1
br label %while.body

while.end:                                  ; preds = %entry
ret void
}

```

```
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

```

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```
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
```

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
; CHECK-LABEL: test_sitofp_fixed:
```

```
    ; First, extend each i32 to i64  
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0  
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0  
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0  
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0  
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0  
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0  
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0  
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
```

```
    ; Next, convert each to double.  
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]  
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]  
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]  
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]  
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]  
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]  
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]  
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
```

```
; CHECK: ret  
%flt = sitofp <16 x i32>  
%in to <16 x double>  
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0>  
ret <16 x double> %res  
}
```

```
; This one is small enough to satisfy isSimple, but still illegally large.
```

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {  
; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
    ; CHECK-DAG: scvtf.2d v0, v0  
    ; CHECK-DAG: scvtf.2d v1, v1
```

```
; CHECK: ret  
%flt = sitofp <4 x i64> %in to <4 x double>  
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>  
ret <4 x double> %res  
}
```

```
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```

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#  
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#  
# Please keep the list sorted.

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Yixuan Qiu <yixuanq@gmail.com>  
Yusuke Suzuki <utatane.tea@gmail.com>  
Zbigniew Skowron <zbychs@gmail.com>  
; RUN: opt -consthoist -S -o - %s | FileCheck %s  
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"  
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.  
; Also check that a constant used as value to be stored rather than  
; pointer in a store instruction is hoisted.  
; CHECK: foo\_i8  
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32  
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32  
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32  
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32  
; CHECK: %0 = inttoptr i32 %[[C2]] to i8\*  
; CHECK-NEXT: %1 = load volatile i8, i8\* %0  
; CHECK-NEXT: %[[M1:const\_mat[0-9]?]] = add i32 %[[C2]], 4  
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8\*  
; CHECK-NEXT: %3 = load volatile i8, i8\* %2  
; CHECK-NEXT: %[[M2:const\_mat[0-9]?]] = add i32 %[[C2]], 31  
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8\*  
; CHECK-NEXT: %5 = load volatile i8, i8\*  
%4  
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8\*  
; CHECK-NEXT: %7 = load volatile i8, i8\* %6  
; CHECK-NEXT: %[[M3:const\_mat[0-9]?]] = add i32 %[[C1]], 7  
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8\*  
; CHECK-NEXT: %9 = load volatile i8, i8\* %8  
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8\*  
; CHECK-NEXT: store i8 %9, i8\* %10  
; CHECK-NEXT: %[[M4:const\_mat[0-9]?]] = add i32 %[[C4]], 31  
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8\*  
; CHECK-NEXT: store i8 %7, i8\* %11

```

; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

```

```
@goo = global i8* undef
```

```

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile
i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

```

```

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
%[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

```



```

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774
to i16*), align 2
ret void
}

```

```

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

```

```

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

```

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```
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --  
scrub-attributes
```

```
; RUN: opt -S -argpromotion < %s | FileCheck %s
```

```
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
```

```
; Test that we only promote arguments when the caller/callee have compatible
```

```
; function attributes.
```

```
target triple = "x86_64-unknown-linux-gnu"
```

```
; This should promote
```

```
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,  
<8 x i64>* readonly %arg1) #0 {
```

```
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
```

```
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
```

```
; CHECK-NEXT: bb:
```

```
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
```

```
; CHECK-NEXT: ret void
```

```
;
```

```
bb:
```

```
%tmp = load <8 x i64>, <8 x i64>* %arg1
```

```
store <8 x i64> %tmp, <8 x i64>* %arg
```

```
ret void
```

```
}
```

```
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0
```

```
{
```

```
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
```

```
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
```

```
; CHECK-NEXT: bb:
```

```
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
```

```
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
```

```
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
```

```
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
```

```
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
```

```

; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64
32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; This should promote

```

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@+}}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{{^@+}}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
;
CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2

```

```

; CHECK-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP2:%.*]] = alloca
<8 x i64>, align 32
; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32

```

```

%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret
void
}

```

; This should promote

```

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{^(^@)+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{^(^@)+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8*
align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)

```

```

%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8
x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{{^@+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0,
i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
;
CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])

```

```

; CHECK-NEXT: bb:
; CHECK-NEXT:
    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define {{{^@}+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store
<8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;

```

```

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64>
%tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {[^@]+}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>,
align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; If the arguments are scalar, its ok to promote.

```

define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{[^@]+}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C

```



```

}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{{^@}+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
;
CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT: [[A:%.*]] = alloca i32
; CHECK-NEXT: store i32 1, i32* [[A]]
; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT: [[C:%.*]] = call i32
@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT: ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
ret i32 %C
}

```

; If the arguments are scalar, its ok to promote.

```

define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{{{^@}+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret
i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

```

```

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{{^@}+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT: [[A:%.*]] = alloca i32
; CHECK-NEXT: store i32 1, i32* [[A]]
; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT: [[C:%.*]] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT: ret i32 [[C]]
;
%A = alloca i32

```

```

store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
ret i32 %C
}

```

```

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

```

```

attributes #0 = { inlinehint norecurse nounwind
  uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
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```

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```
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s
--check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi |
FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for
vpmaddwd+vpadd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-
prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-
```

```

prefixes=CHECK,CHECK-VBMI
;
RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI

```

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1,
32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

```

```

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

```

```

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:

```







```

%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13,
i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-
width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr)
"min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr

```

```
ret void
}
```

```
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
```

```
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:
    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:  vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpadd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpadd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:  vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpsltd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpsltd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0,
    %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
    %3 = zext i32 %2 to i64
    br label %vector.body
```

```
vector.body:
```

```
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
```

```

%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22,
i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

define i32 @\_Z9test\_charPcS\_i\_512(i8\* nocapture readonly, i8\* nocapture readonly, i32) "min-legal-vector-

```

width="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:    # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT: .LBB9_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB9_1
; CHECK-NEXT:
    # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd { {. *#+ } } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd { {. *#+ } } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi

```

```

%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```
@a = global [1024 x i8] zeroinitializer, align 16
```

```
@b = global [1024 x i8] zeroinitializer, align 16
```

```

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0,
%xmm0
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1

```

```

; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsdshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsdshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi
= phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector
<16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,

```

```

i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd
{{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*

```



```

%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
;

```

```

CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT:
vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvt dq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:
    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:  vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16
x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0

```

```

; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0,
%xmm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvt dq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvt dq2pd

```

```

%ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:

```

```

; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16
%ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:    # %bb.0:
; CHECK-AVX512-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT:
vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} %ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} %ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:  vmovdqa {{.*#+}} %ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} %ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} %ymm1 =

```

```

ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpand %ymm5,
  %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:
  vzeroupper
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:      # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}}
ymm3 = [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4

```





```

; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT:
    vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
;
CHECK-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
46,96,98,100,102,104,106,108,110,48,50,52,54,56,58,60,62,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT:  vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:  vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq
% d = load <64 x i8>, <64 x i8>* % a
% e = load <64 x i8>, <64 x i8>* % b
% f = mul <64 x i8> % d, % e
store <64 x i8> % f, <64 x i8>* % c
ret void
}

```

; This threw an assertion at one point.

```

define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-
width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:  vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
;
CHECK-NEXT:  retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
%dst)
ret <4 x i32> %res
}

```

```
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)
```

```
define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i32:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2  
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3  
; CHECK-NEXT: vpmovqd %ymm0, %xmm0  
; CHECK-NEXT: vpmovqd %ymm1, %xmm1  
; CHECK-NEXT: vinserti128 $1, %xmm1, %ymm0, %ymm0  
; CHECK-NEXT: vpmovqd %ymm2, %xmm1  
; CHECK-NEXT: vpmovqd %ymm3, %xmm2  
; CHECK-NEXT: vinserti128 $1, %xmm2, %ymm1, %ymm1  
; CHECK-NEXT: retq  
%a = load <16 x i64>, <16 x i64>* %x  
%b = trunc <16 x i64> %a to <16 x i32>  
ret <16 x i32> %b  
}
```

```
define  
<16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i8:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2  
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3  
; CHECK-NEXT: vpmovqb %ymm3, %xmm3  
; CHECK-NEXT: vpmovqb %ymm2, %xmm2  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]  
; CHECK-NEXT: vpmovqb %ymm1, %xmm1  
; CHECK-NEXT: vpmovqb %ymm0, %xmm0  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm2[0]  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%a = load <16 x i64>, <16 x i64>* %x  
%b = trunc <16 x i64> %a to <16 x i8>  
ret <16 x i8> %b  
}
```

```
define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i32_v16i8:  
; CHECK:      # %bb.0:  
; CHECK-NEXT:
```

```

    vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
;
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm2

```



```

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpsraq $48, 32(%rdi), %ymm0
; CHECK-NEXT:  vpsraq $48, (%rdi), %ymm1
; CHECK-NEXT:
    vpmovqd %ymm1, %xmm1
; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
; CHECK-NEXT:  vinserti128 $1, %xmm0, %ymm1, %ymm0
; CHECK-NEXT:  retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
    %c = trunc <8 x i64> %b to <8 x i32>
    ret <8 x i32> %c
}

```

```

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:  vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:  retq
    %a = load <16 x i32>, <16 x i32>* %x
    %b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
    %c = trunc <16 x i32> %b to <16 x i16>
    ret <16 x i16> %c
}

```

```

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x
i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512:      # %bb.0:
; CHECK-AVX512-NEXT:  vpsraw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:  vpsraw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:  vpacksswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:      # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:  vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:  retq
    %a = load <32 x i16>, <32 x i16>* %x

```



```

CHECK-NEXT: vpmovsxdq %xmm0, %ymm0
; CHECK-NEXT: vpmovsxdq %xmm2, %ymm2
; CHECK-NEXT: vmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

```

```

define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>*
%r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i16_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrb $4, %k1, %k2
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8
x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i16> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

```

```

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>*
%r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrb $4, %k1, %k2
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)

```

```

; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

define
void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r)
"min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT:  kshiftrw $8, %k1, %k2
; CHECK-NEXT:  vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x
i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
;
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT:  kshiftrw $8, %k1, %k2
; CHECK-NEXT:  vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

```



```

%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
; CHECK-NEXT:
    vzeroupper
; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256"
{
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
;
    CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
}

```

```

store <16 x i8> %f, <16 x i8>* %q
ret void
}

```

```

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_argument_return:
; CHECK:      # %bb.0:
; CHECK-NEXT:  retq
ret <64 x i1> %x
}

```

```

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:
    # %bb.0: # %entry
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT:  vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT:  kshiftrd $1, %k0, %k1
; CHECK-NEXT:  movq $-3, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftlq $63, %k0, %k2
; CHECK-NEXT:  kshiftrq $62, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-5, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $3, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $61, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-9, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $2, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $60, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-17, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:
    kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $5, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $59, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-33, %rax

```

```

; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $4, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $57, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-129, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $6, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $56, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-257, %rax # imm = 0xFEFF
;
CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $9, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $55, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-513, %rax # imm = 0xFDFD
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $8, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $54, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $11, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $53, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $10, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq

```

```

$52, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $13, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $51, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $12, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $50, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $15, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $49, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1,
%k1
; CHECK-NEXT: kshiftrd $14, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $48, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65537, %rax # imm = 0xFFFFEFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $17, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $47, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-131073, %rax # imm = 0xFFFFDFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $16, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $46, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-262145, %rax # imm = 0xFFFFBFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1

```

```

; CHECK-NEXT: kshiftrd $19, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $45, %k2, %k2
; CHECK-NEXT: korq %k2, %k1,
%k1
; CHECK-NEXT: movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $18, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $44, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1048577, %rax # imm = 0xFFEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $21, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $43, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2097153, %rax # imm = 0xFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $20, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $42, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4194305, %rax # imm = 0xFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd
$23, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $41, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-8388609, %rax # imm = 0xFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $22, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $40, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-16777217, %rax # imm = 0xFEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $25, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $39, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1

```

```

; CHECK-NEXT: movq $-33554433, %rax # imm = 0xFDFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $24, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $38, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT:
    movq $-67108865, %rax # imm = 0xFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $27, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $37, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-134217729, %rax # imm = 0xF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $26, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $36, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $29, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $35, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $28,
%k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $34, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $31, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $33, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k2
; CHECK-NEXT: vptestnmb %ymm0, %ymm0, %k1

```

```

; CHECK-NEXT: kshiftrd $30, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k0, %k0
; CHECK-NEXT: kshiftrq $32, %k0, %k0
; CHECK-NEXT: korq %k0, %k2, %k0
; CHECK-NEXT: movabsq $-4294967297, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $1, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq
$31, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8589934593, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k2
; CHECK-NEXT: kshiftrq $30, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $3, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $29, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $2, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $28, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-68719476737, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax,
%k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $5, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $27, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $4, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $26, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-274877906945, %rax # imm = 0xFFFFFFFFBFFFFFFFFF

```

```

; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $7, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $25, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-549755813889, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $6, %k1, %k2
; CHECK-NEXT: kshiftrlq
$63, %k2, %k2
; CHECK-NEXT: kshiftrq $24, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1099511627777, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $9, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $23, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2199023255553, %rax # imm = 0xFFFFFDFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $8, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $22, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4398046511105, %rax # imm = 0xFFFFFBFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $11, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $21, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT:
movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $10, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $20, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $13, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2

```



```

; CHECK-NEXT: kshiftrq $19, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $12, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $18, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
;
CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $15, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $17, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $14, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $16, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-281474976710657, %rax # imm = 0xFFFEFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $17, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $15, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-562949953421313, %rax # imm = 0xFFFFDFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $16, %k1, %k2
; CHECK-NEXT:
kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $14, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1125899906842625, %rax # imm = 0xFFFBFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $19, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $13, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2

```

```

; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $18, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $12, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $21, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $11, %k2, %k2
; CHECK-NEXT: korq %k2,
%k0, %k0
; CHECK-NEXT: movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $20, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $10, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $23, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $9, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $22, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $8, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFFF
; CHECK-NEXT:
kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $25, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $7, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $24, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $6, %k2, %k2

```

```

; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $27, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $5, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd
$26, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $4, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $29, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $3, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $28, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $2, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4611686018427387905, %rax # imm = 0xBF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $31, %k1, %k2
; CHECK-NEXT: kshiftrlq $62, %k2, %k2
; CHECK-NEXT: korq %k2,
%k0, %k0
; CHECK-NEXT: kshiftrd $30, %k1, %k1
; CHECK-NEXT: kshiftrlq $1, %k0, %k0
; CHECK-NEXT: kshiftrq $1, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k1
; CHECK-NEXT: korq %k1, %k0, %k1
; CHECK-NEXT: vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT: kshiftrq $32, %k1, %k1
; CHECK-NEXT: vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:

```

```

%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitializer
%shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32
6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32
22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39,
i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32
55, i32 54, i32 57, i32 56, i32
59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

```

```

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:      # %bb.0:
; CHECK-NEXT:  kmovq {{.*}}(%rip), %k0
; CHECK-NEXT:  #APP
; CHECK-NEXT:  #NO_APP
; CHECK-NEXT:  kmovq %k0, {{.*}}(%rip)
; CHECK-NEXT:  movl -{[0-9]+}(%rsp), %eax
; CHECK-NEXT:  retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 @asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}

```

```

define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-
width"="256" {
; CHECK-LABEL: cmp_v8i64_sext:
;
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:  vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:  vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y

```

```

%ext = sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

```

```

define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT: vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0,
(%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = zext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

```

```

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm1 =
xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zer
o,xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xm
m1[15],zero
; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm0 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zer
o,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xm
m0[15],zero
;
; CHECK-NEXT: vpsllvw %ymm1, %ymm0, %ymm1
; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm2 =
xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zer
o,xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xm
m2[15],zero
; CHECK-NEXT: vpsrlvw %ymm2, %ymm0, %ymm0

```





```

; CHECK-AVX512-NEXT: vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:
    vpsrlw $8, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[
5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[
19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
; CHECK-AVX512-NEXT: vpsllvw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpor %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: constant_rotate_v32i8:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-VBMI-NEXT: vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-VBMI-NEXT: # ymm2 = mem[0,1,0,1]
; CHECK-VBMI-NEXT: vblendvb %ymm2, %ymm1,
    %ymm0, %ymm1
; CHECK-VBMI-NEXT: vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT: vblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpaddb %ymm1, %ymm1, %ymm3
; CHECK-VBMI-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT: vblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13
],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[24],ymm2[24],ymm0[25],ymm2[25],ymm0[26],ym
m2[26],ymm0[27],ymm2[27],ymm0[28],ymm2[28],ymm0[29],ymm2[29],ymm0[30],ymm2[30],ymm0[31],ymm2[
31]
; CHECK-VBMI-NEXT: vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[
5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[
19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
;
CHECK-VBMI-NEXT: vpsllvw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm2 =
[1,3,5,7,9,11,13,15,33,35,37,39,41,43,45,47,17,19,21,23,25,27,29,31,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vpermi2b %ymm3, %ymm0, %ymm2
; CHECK-VBMI-NEXT: vpor %ymm2, %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq
    %shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8

```





; as Legal.

```
; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
    metadata !"fpexcept.strict")
    strictfp
ret i32 %result
}
```

```
@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)
```

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add\_lldb\_library(lldbPluginObjectContainerBSDArchive PLUGIN  
ObjectContainerBSDArchive.cpp

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; NOTE: Assertions have been autogenerated by utils/update\_test\_checks.py UTC\_ARGS: --function-signature --scrub-attributes

; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=4 -S < %s | FileCheck %s --check-

prefixes=CHECK,NOT\_CGSCC\_NPM,NOT\_CGSCC\_OPM,NOT\_TUNIT\_NPM,IS\_TUNIT\_\_\_\_,IS\_\_\_\_\_OPM,IS\_TUNIT\_OPM

```

; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -
attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS_TUNIT____,IS_____NPM
M,IS_TUNIT_NPM
; RUN: opt -attributor-cgsc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --
check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS_CGSCC____,IS_____OP
M,IS_CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgsc -attributor-manifest-internal
-attributor-annotate-decl-cs -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS_CGSCC____,IS_____NPM
M,IS_CGSCC_NPM
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

```

```
target triple = "x86_64-unknown-linux-gnu"
```

```

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{[[@+]}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture noreg nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture noreg nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:
ret void
;
; IS_TUNIT_NPM-LABEL: define
{[[@+]}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture noreg nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS_TUNIT_NPM-NEXT: bb:
; IS_TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
;
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture
writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
;
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64

```

```

dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL:
define {{{^@}+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]],
<8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; NOT_TUNIT_NPM-LABEL: define
{{{^@}+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:
[[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

```

```

;
; IS__TUNIT_NPM-LABEL: define
{[^(+)]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8
x i64>* %arg) #1 {
;
; IS__TUNIT_OPM-LABEL: define {[^(+)]}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]],
align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {[^(+)]}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void

```

```

@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:
    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]]
= load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32

```

```

store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; NOT_TUNIT_NPM-LABEL: define
{{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret
void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull

```

```

writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture
nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture
nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8

```



```

x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias
nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>*
readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{[[@+]]} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define
{[[@+]]} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:
[[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

```

```

}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM-LABEL: define {{{^@+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8
x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree
nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{{^@+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] =
load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{{^@+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64)
[[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull

```

```

writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8*
nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4,
<8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; NOT_TUNIT_NPM-LABEL: define
{{{^@}+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;

```

```

; IS__TUNIT_NPM-LABEL: define
{[^[^@]+]}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias noreturn noreadonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias noreturn noreadonly
readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
;
; IS__TUNIT_OPM-LABEL: define {[^[^@]+]}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* noreturn noreadonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* noreturn noreadonly align 32
dereferenceable(64) [[TMP3]],
i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noreturn noreadonly
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noreturn noreadonly readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {[^[^@]+]}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noreturn noreadonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* noreturn noreadonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias noreturn
noreadonly noreadonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias noreturn noreadonly
readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64

```

```

; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{{^@+}}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:
    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0,
i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{{^@+}}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]]
    = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

```

```

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
;
; NOT_TUNIT_NPM-LABEL: define
{{{^@+}}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture norelease nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture norelease nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define
{{{^@+}}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture norelease nonnull writeonly
align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture norelease nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8*
nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture norelease nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norelease nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;

```

```

; IS__TUNIT_NPM-LABEL: define {{^[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:
    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0,
i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{^[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:
    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{^[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:
    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64

```

```

; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
;
; NOT_TUNIT_NPM-LABEL: define
{[^[^@]+]}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {[^[^@]+]}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME:
(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>
[[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
;
; IS__TUNIT_OPM-LABEL: define {[^[^@]+]}@avx2_legal256_prefer256_call_avx2_legal512_prefer256

```



```

; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]]
= alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:
[[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
;
IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2

```

```

; IS_CGSCC_OPM-NEXT: ret void
;
; IS_CGSCC_NPM-LABEL: define {[^@]+} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS_CGSCC_NPM-SAME: (<8 x i64>* noregister noregister writeonly align 2 dereferenceable(64)
[[ARG:%.*]])
; IS_CGSCC_NPM-NEXT: bb:
; IS_CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS_CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS_CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS_CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* noregister writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS_CGSCC_NPM-NEXT: call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noregister noregister noregister
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noregister noregister noregister readonly align 64
dereferenceable(64) [[TMP]])
; IS_CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS_CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS_CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x
i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* noregister %arg1) #4 {
;
; NOT_TUNIT_NPM-LABEL: define
{[^@]+} @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* noregister noregister writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noregister noregister readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:
ret void
;
; IS_TUNIT_NPM-LABEL: define {[^@]+} @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS_TUNIT_NPM-SAME: (<8 x i64>* noregister noregister noregister writeonly align 64 dereferenceable(64)

```

```

[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
;
; IS__TUNIT_OPM-LABEL: define {{{^@+}}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
;
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{{^@+}}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly
[[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2

```

```

; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM-LABEL: define {[^@+]} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
;
IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {[^@+]} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
;
IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:
    ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256"
}
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-
prefixes=CHECK,VEC256,AVX
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit |
FileCheck %s --check-prefixes=CHECK,VEC256,AVX512VL256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit |
FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL512
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-
prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-
prefixes=CHECK,VEC512,SKX512

define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost
Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to

```

```

<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8>
  undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of
0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

```

```

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext512'
;
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to

```

```

<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated
cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:
Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>

```

```

%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256()
"min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

```



```

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef
to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction:
%D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>

```

```

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT:
  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL:
'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F
= sext <32 x i8> undef to <32 x i16>
ret void
}

define void @trunc256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc256'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>

```

```

; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'trunc256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A =
trunc <8 x i64> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to
<8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef
to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef
to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to
<16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to
<32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to
<8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to
<8 x i16>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef
to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to
<16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to
<32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction:
%D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x

```

```

i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; AVX-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x

```

i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; AVX-NEXT:  
 Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

;

; AVX512VL256-LABEL: 'zext256\_vXi1'

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction:  
 %V8i64 = zext <8 x i1> undef to <8 x i64>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

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; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to
<8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1>
undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1>
undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1>
undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'zext256_vXi1'
;
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef
to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef
to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef
to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef
to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef
to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef
to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1>
undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef
to <2 x i16>
; AVX512VL512-NEXT: Cost Model:
Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef
to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1>
undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1>
undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to
<2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to
<4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of
9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1>
undef to <64 x i8>

```

```

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8
x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to
<32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for
instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>

```

```

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; SKX512-NEXT:
Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to
<16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to
<16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to
<32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction:
%V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x
i1> undef to <16 x i32>

%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>

```



```
%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>
```

```
ret i32 undef
}
```

```
define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7
for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction:
%V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction:
```

```

%V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef
to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL256-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1>
undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef
to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1>
undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to
<2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to
<4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to
<8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1>
undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1>
undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'

```

```

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction:
%I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef
to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1>
undef to <16 x i32>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef
to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1>
undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to
<2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction:
%V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>

```

```

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT:
Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to
<32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction:
%V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32

```

```

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost
of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to
<16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to
<16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to
<32 x i16>
; SKX512-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 =
sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16

```

```
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>
```

```
%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>
```

```
ret i32 undef
}
```

```
define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to
<2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to
<32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction:
%V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x
```

```

i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to
<64 x i1>
; AVX-NEXT: Cost Model:
Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4
x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32>
undef
to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>

```

```

undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16>
undef to
<64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32>

```



```

undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>
undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model:
Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to
<16 x i1>

```

```

; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found
an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2
x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8

```

```

x i1>
; SKX512-NEXT: Cost Model:
Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction:
%V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64>
undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

```

```
%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>
```

```
%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>
```

```
ret i32 undef
}
```

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# 1.960 python 2.7.15~rc1-1

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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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 |
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| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      |     |     |
|       | PSF   | yes       |     |     |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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jar/org/apache/commons/digester/CallParamRule.java
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/\* \$Id: RulesBase.java 471661 2006-11-06 08:09:25Z skitching \$

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/\* \$Id: BeanPropertySetterRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/\* \$Id: GenericParser.java 471661 2006-11-06 08:09:25Z skitching \$

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/\* \$Id: FinderFromDfltClass.java 471661 2006-11-06 08:09:25Z skitching \$

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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java

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```
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/Rule.java
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/\* \$Id: VariableSubstitutor.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/substitution/VariableSubstitutor.java

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/\* \$Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/SimpleRegexMatcher.java

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/\* \$Id: PluginException.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/PluginException.java

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/\* \$Id: MultiVariableExpander.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/substitution/MultiVariableExpander.java

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/\* \$Id: NodeCreateRule.java 472835 2006-11-09 09:59:53Z skitching \$

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```
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Found in path(s):

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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/SetNextRule.java

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/\* \$Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/plugins/PluginAssertionFailure.java

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jar/org/apache/commons/digester/plugins/InitializableRule.java  
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jar/org/apache/commons/digester/xmlrules/DigesterLoader.java  
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/\* \$Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl \$  
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Found in path(s):

\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java  
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/\* \$Id: CircularIncludeException.java 471661 2006-11-06 08:09:25Z skitching \$

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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/xmlrules/CircularIncludeException.java  
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```
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```
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jar/org/apache/commons/digester/Rules.java

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```
/* $Id: StackAction.java 476205 2006-11-17 16:43:10Z dennisl $
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```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

```
jar/org/apache/commons/digester/StackAction.java
```

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```
/* $Id: LogUtils.java 471661 2006-11-06 08:09:25Z skitching $
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*/
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```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

```
jar/org/apache/commons/digester/plugins/LogUtils.java
```

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```
/* $Id: FinderFromClass.java 471661 2006-11-06 08:09:25Z skitching $
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```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java
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```

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```
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jar/org/apache/commons/digester/ObjectCreateRule.java
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```

```
/* $Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl $
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```
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jar/org/apache/commons/digester/plugins/PluginConfigurationException.java
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```

```
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```

```
/* $Id: FinderSetProperties.java 471661 2006-11-06 08:09:25Z skitching $
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```



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jar/org/apache/commons/digester/plugins/strategies/FinderSetProperties.java

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/\* \$Id: AbstractRulesImpl.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/AbstractRulesImpl.java

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/\* \$Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul \$

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jar/org/apache/commons/digester/plugins/PluginContext.java  
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17 20:00:50Z rahul \$

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/\* \$Id: Digester.java 480169 2006-11-28 19:37:36Z rahul \$

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/\* \$Id: WithDefaultsRulesWrapper.java 471661 2006-11-06 08:09:25Z skitching \$

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/\* \$Id: PluginInvalidInputException.java 476205 2006-11-17 16:43:10Z dennisl \$

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/\* \$Id: LoaderSetProperties.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/DigesterRuleParser.java  
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Found in path(s):

\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/RuleSet.java

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/\* \$Id: ObjectParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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```
/* $Id: FinderFromDfltResource.java 471661 2006-11-06 08:09:25Z skitching $
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```

Found in path(s):

\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java

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```
/* $Id: ParserFeatureSetterFactory.java 476205 2006-11-17 16:43:10Z dennisl $
```

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*/
```

Found in path(s):

\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-

jar/org/apache/commons/digester/ParserFeatureSetterFactory.java  
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`/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/Declaration.java`  
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```
/* $Id: XmlLoadException.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

`/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/xmlrules/XmlLoadException.java`

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```
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/xmlrules/FromXmlRuleSet.java
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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginRules.java
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```
/* $Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SetNestedPropertiesRule.java
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```
/* $Id: PluginManager.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
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```
/* $Id: RegexRules.java 471661 2006-11-06 08:09:25Z skitching $
*
```

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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/RegexRules.java

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```
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jar/org/sonatype/plexus/components/cipher/PlexusCipher.java
```

```
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jar/org/sonatype/plexus/components/cipher/DefaultPlexusCipher.java
```

```
*
```

```
 /opt/ws_local/PERMITS_SQL/1092924019_1600811440.54/0/plexus-cipher-1-7-sources-1-  
jar/org/sonatype/plexus/components/cipher/PlexusCipherException.java
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```
/**
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* createCipher routine was adopted from http://juliusdavies.ca/svn/not-yet-commons-ssl/tags/commons-ssl-0.3.10/src/java/org/apache/commons/ssl/OpenSSL.java
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jar/org/sonatype/plexus/components/cipher/Base64.java

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\* /opt/cola/permits/1136136687\_1613688595.31/0/plexus-sec-dispatcher-1-4-sources-1-  
jar/org/sonatype/plexus/components/sec/dispatcher/PasswordDecryptor.java  
\* /opt/cola/permits/1136136687\_1613688595.31/0/plexus-sec-dispatcher-1-4-sources-1-  
jar/org/sonatype/plexus/components/sec/dispatcher/DefaultSecDispatcher.java  
\*

/opt/cola/permits/1136136687\_1613688595.31/0/plexus-sec-dispatcher-1-4-sources-1-  
jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcher.java  
\* /opt/cola/permits/1136136687\_1613688595.31/0/plexus-sec-dispatcher-1-4-sources-1-  
jar/org/sonatype/plexus/components/sec/dispatcher/SecUtil.java  
\* /opt/cola/permits/1136136687\_1613688595.31/0/plexus-sec-dispatcher-1-4-sources-1-  
jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcherException.java  
\* /opt/cola/permits/1136136687\_1613688595.31/0/plexus-sec-dispatcher-1-4-sources-1-

# 1.975 backport-util-concurrent 3.1

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- 1) JSR166,
- 2) package dl.util.concurrent,
- 3) Doug Lea's "collections" package.

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jar/org/apache/commons/lang/mutable/MutableObject.java  
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jar/org/apache/commons/lang/mutable/MutableByte.java  
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## 1.987 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2

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Version 2.8, 17 August 2003

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#<FONT FACE="Courier">

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!include "../../LICENSE" ; verbatim

#!block inline

#</FONT>

#!endblock



# 1.989 commons-cli 1.0

## 1.989.1 Available under license :

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```
/*
 * $Header: /home/cvs/jakarta-commons/cli/src/java/org/apache/commons/cli/Parser.java,v 1.7 2002/10/24 23:17:49
jkeyes Exp $
 * $Revision: 1.7 $
 * $Date: 2002/10/24 23:17:49 $
 *
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jar/org/apache/commons/cli/Parser.java

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\* \$Header: /home/cvs/jakarta-commons-  
sandbox/cli/src/java/org/apache/commons/cli/UnrecognizedOptionException.java,v 1.2 2002/06/06 09:37:26  
jstrachan Exp \$  
\* \$Revision: 1.2 \$  
\* \$Date: 2002/06/06 09:37:26 \$

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 jar/org/apache/commons/cli/UnrecognizedOptionException.java

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\* \$Header: /home/cvs/jakarta-commons/cli/src/java/org/apache/commons/cli/GnuParser.java,v 1.10 2002/09/19

22:59:43 jkeyes Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2002/09/19 22:59:43 \$

\*

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\* \$Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/TypeHandler.java,v 1.2  
2002/06/06 22:49:36 bayard Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2002/06/06 22:49:36 \$

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jar/org/apache/commons/cli/TypeHandler.java
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```

```

/*
* $Header: /home/cvs/jakarta-commons-
sandbox/cli/src/java/org/apache/commons/cli/MissingArgumentException.java,v 1.2 2002/06/06 09:37:26 jstrachan
Exp $
* $Revision: 1.2 $
* $Date: 2002/06/06 09:37:26 $
*

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jar/org/apache/commons/cli/MissingArgumentException.java  
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\* \$Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/OptionGroup.java,v 1.2  
2002/06/06 09:37:26 jstrachan Exp \$  
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jar/org/apache/commons/cli/MissingOptionException.java

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\* \$Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/Options.java,v 1.5  
2002/06/06 22:32:37 bayard Exp \$

\* \$Revision: 1.5 \$

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```
/*
* $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/PatternOptionBuilder.java,v
1.2 2002/06/06 22:49:36 bayard Exp $
* $Revision: 1.2 $
* $Date: 2002/06/06 22:49:36 $
*
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\* \$Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/Option.java,v 1.6 2002/06/06  
22:50:14 bayard Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2002/06/06 22:50:14 \$

\*  
\*

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\* \$Id: Option.java,v 1.6 2002/06/06 22:50:14 bayard Exp \$

\*/



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\* /opt/cola/permits/1147456877\_1617040684.68/0/commons-cli-1-0-sources-2-jar/org/apache/commons/cli/Option.java

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\* \$Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/CommandLine.java,v 1.4 2002/06/06 22:32:37 bayard Exp \$

\* \$Revision: 1.4 \$

\* \$Date: 2002/06/06 22:32:37 \$

\*

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jar/org/apache/commons/cli/CommandLine.java

\*

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jar/org/apache/commons/cli/HelpFormatter.java

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\* \$Header: /home/cvs/jakarta-commons/cli/src/java/org/apache/commons/cli/CommandLineParser.java,v 1.4  
2002/09/19 22:59:43 jkeyes Exp \$

\* \$Revision: 1.4 \$

\* \$Date: 2002/09/19 22:59:43 \$

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```
/*
* $Header: /home/cvs/jakarta-commons/cli/src/java/org/apache/commons/cli/PosixParser.java,v 1.11 2002/09/19
22:59:43 jkeyes Exp $
* $Revision: 1.11 $
* $Date: 2002/09/19 22:59:43 $
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\* \$Header: /home/cvs/jakarta-commons/cli/src/java/org/apache/commons/cli/BasicParser.java,v 1.3 2002/09/19  
22:59:43 jkeyes Exp \$  
\* \$Revision: 1.3 \$  
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jar/org/apache/commons/cli/BasicParser.java

```

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```

/*
* $Header: /home/cvs/jakarta-commons-
sandbox/cli/src/java/org/apache/commons/cli/AlreadySelectedException.java,v 1.4 2002/06/06 09:37:26 jstrachan

```

Exp \$

\* \$Revision: 1.4 \$

\* \$Date: 2002/06/06 09:37:26 \$

\*

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\* \$Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/ParseException.java,v 1.2  
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\* \$Revision: 1.2 \$

\* \$Date: 2002/06/06 09:37:26 \$

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 jar/org/apache/commons/cli/ParseException.java

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```
* /opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/ContinuationSupport.java
* /opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java
* /opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/Continuation.java
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/opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/ContinuationFilter.java
* /opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/Servlet3Continuation.java
* /opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/FauxContinuation.java
* /opt/cola/permits/1147456864_1616955837.19/0/jetty-continuation-9-4-10-v20180503-sources-2-jar/org/eclipse/jetty/continuation/package-info.java
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 * $Date: 2003/01/15 21:59:38 $
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 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-  
 jar/org/slf4j/profiler/TimeInstrument.java  
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 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-  
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 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/cal10n/LocLogger.java  
 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/NDC.java  
 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-  
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 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/ext/EventException.java  
 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/agent/AgentOptions.java  
 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-  
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 \*  
 /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-  
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 \* /opt/cola/permits/1147876715\_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/ext/LoggerWrapper.java

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```
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 * Default base class for handlers.
 *
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 * </blockquote>
 *
 * <p>This class implements the default behaviour for four SAX1
 * interfaces: EntityResolver, DTDHandler, DocumentHandler,
 * and ErrorHandler. It is now obsolete, but is included in SAX2 to
 * support legacy SAX1 applications. SAX2 applications should use
 * the { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }
 * class instead.</p>
 *
 * <p>Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own.</p>
 *
 * <p>Note that the use of this class is optional.</p>
 *
 * @deprecated This class works with the deprecated
 * { @link
 * org.xml.sax.DocumentHandler DocumentHandler }
 * interface. It has been replaced by the SAX2
 * { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }
 * class.
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.DocumentHandler
 * @see org.xml.sax.ErrorHandler
```

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/HandlerBase.java  
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/\*\*

\* Basic interface for SAX error handlers.

\*

\* <blockquote>

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\* </blockquote>

\*

\* <p>If a SAX application needs to implement customized error

\* handling, it must implement this interface and then register an

\* instance with the XML reader using the

\* { @link org.xml.sax.XMLReader#setErrorHandler setErrorHandler }

\* method. The parser will then report all errors and warnings

\* through this interface.</p>

\*

\* <p><strong>WARNING:</strong> If an application does <em>not</em>

\* register an ErrorHandler, XML parsing errors will go unreported

\* and bizarre behaviour may result.</p>

\*

\* <p>For XML processing errors, a SAX driver must use this interface

\* instead of throwing an exception: it is up to the application

\* to decide whether to throw an exception for different types

of

\* errors and warnings. Note, however, that there is no requirement that

\* the parser continue to provide useful information after a call to

\* { @link #fatalError fatalError } (in other words, a SAX driver class

\* could catch an exception and report a fatalError).</p>

\*

\* @since SAX 1.0

\* @author David Megginson,

\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>

\* @version 2.0

\* @see org.xml.sax.Parser#setErrorHandler

\* @see org.xml.sax.SAXParseException

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java  
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```

* Base class for deriving an XML filter.
*
* <blockquote>
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* </blockquote>
*
* <p>This class is designed to sit between an { @link org.xml.sax.XMLReader
* XMLReader} and the client application's event handlers. By default, it
* does nothing but pass requests up to the reader and events
* on to the handlers unmodified, but subclasses can override
* specific methods to modify the event stream or the configuration
* requests as they pass through.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.XMLReader
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLFilterImpl.java

```

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```

/**
* Receive notification of basic DTD-related events.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>If a SAX application needs information about notations and
* unparsed entities, then the application implements this
* interface and registers an instance with the SAX parser using
* the parser's setDTDHandler method. The parser uses the
* instance to report notation and unparsed entity declarations to
* the application.</p>
*
* <p>Note that this interface includes only those DTD events that
* the XML recommendation <em>requires</em> processors to report:

```

\* notation and unparsed entity declarations.</p>  
\*  
\* <p>The SAX parser may report these events in any order, regardless  
\* of the order in which the notations and unparsed entities were  
\* declared; however, all DTD events  
\* must be reported after the  
\* document handler's startDocument event, and before the first  
\* startElement event.</p>

\* <p>It is up to the application to store the information for  
\* future use (perhaps in a hash table or object tree).  
\* If the application encounters attributes of type "NOTATION",  
\* "ENTITY", or "ENTITIES", it can use the information that it  
\* obtained through this interface to find the entity and/or  
\* notation corresponding with the attribute value.</p>

\*  
\* @since SAX 1.0  
\* @author David Megginson,  
\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
\* @version 2.0  
\* @see org.xml.sax.Parser#setDTDHandler  
\* @see org.xml.sax.HandlerBase  
\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java

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/\*\*

\* Interface for a list of XML attributes.

\*

\* <blockquote>

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\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This interface allows access to a list of attributes in

\* three different ways:</p>

\*

\* <ol>

\* <li>by attribute index;</li>

\* <li>by Namespace-qualified name; or</li>

\* <li>by qualified (prefixed) name.</li>

\* </ol>

\*

\* <p>The list will not contain attributes that were declared

\* #IMPLIED but not specified in the start tag. It will also not



\* contain attributes used as Namespace declarations (xmlns\*) unless  
 \* the `<code>http://xml.org/sax/features/namespace-prefixes</code>`  
 \* feature is set to `<var>>true</var>` (it is `<var>>false</var>` by  
 \* default).</p>
 \*
 \* <p>If the namespace-prefixes feature (see above) is `<var>>false</var>`,  
 \* access by qualified name may not be available; if the  
 \* `<code>http://xml.org/sax/features/namespaces</code>`  
 \* feature is `<var>>false</var>`, access by Namespace-qualified names  
 \* may not be available.</p>
 \*
 \* <p>This interface replaces the now-deprecated SAX1 { @link  
 \* org.xml.sax.AttributeList AttributeList } interface, which does not  
 \* contain Namespace support. In addition to Namespace support, it  
 \* adds the `<var>getIndex</var>` methods (below).</p>
 \*
 \* <p>The order of attributes in the list is unspecified, and will  
 \* vary from implementation to implementation.</p>
 \*
 \* @since SAX 2.0  
 \* @author David Megginson,  
 \* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
 \* @version 2.0  
 \* @see org.xml.sax.helpers.AttributeListImpl  
 \*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Attributes.java  
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 \* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMInputSource.java  
 \* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DocumentLS.java

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathNSResolver.java
*
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathResult.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathExpression.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMWriter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathNamespace.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMEntityResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/LSLoadEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/LSProgressEvent.java
*
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/ParseErrorEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMWriterFilter.java
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```

```

/**

```

```

* Interface for associating a SAX event with a document location.
*
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>If a SAX parser provides location information to the SAX
* application, it does so by implementing this interface and then
* passing an instance to the application using the content
* handler's { @link org.xml.sax.ContentHandler#setDocumentLocator
* setDocumentLocator} method. The application can use the
* object to obtain the location of any other content handler event
* in the XML source document.</p>
*
* <p>Note that the results returned by the object will be valid only
* during the scope of each content handler method: the application
* will receive unpredictable results if it attempts to use the
* locator at any other time.</p>
*
* <p>SAX parsers are not

```

required to supply a locator, but they are

- \* very strongly encouraged to do so. If the parser supplies a
- \* locator, it must do so before reporting any other document events.
- \* If no locator has been set by the time the application receives
- \* the { @link org.xml.sax.ContentHandler#startDocument startDocument }
- \* event, the application should assume that a locator is not
- \* available.</p>
- \*
- \* @since SAX 1.0
- \* @author David Megginson,
- \* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
- \* @version 2.0
- \* @see org.xml.sax.ContentHandler#setDocumentLocator
- \*/

Found in path(s):

- \* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Locator.java

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/\*\*

\* Interface for an XML filter.

\*

\* <blockquote>

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\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>An XML filter is like an XML reader, except that it obtains its

\* events from another XML reader rather than a primary source like

\* an XML document or database. Filters can modify a stream of

\* events as they pass on to the final application.</p>

\*

\* <p>The XMLFilterImpl helper class provides a convenient base

\* for creating SAX2 filters, by passing on all { @link org.xml.sax.EntityResolver

\* EntityResolver}, { @link org.xml.sax.DTDHandler DTDHandler},

\* { @link org.xml.sax.ContentHandler ContentHandler} and { @link org.xml.sax.ErrorHandler

\* ErrorHandler} events automatically.</p>

\*

\* @since SAX 2.0

\* @author David Megginson,

\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>

\* @version 2.0

\* @see org.xml.sax.helpers.XMLFilterImpl

\*/

Found in path(s):

- \* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLFilter.java

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```
/**
 * Default implementation for AttributeList.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>AttributeList implements the deprecated SAX1 { @link
 * org.xml.sax.AttributeList AttributeList} interface, and has been
 * replaced by the new SAX2 { @link org.xml.sax.helpers.AttributesImpl
 * AttributesImpl} interface.</p>
 *
 * <p>This class provides a convenience implementation of the SAX
 * { @link org.xml.sax.AttributeList AttributeList} interface. This
 * implementation is useful both for SAX parser writers, who can use
 * it to provide attributes to the application, and for SAX application
 * writers, who can use it to create a persistent copy of an element's
 * attribute specifications:</p>
 *
 * <pre>
 * private AttributeList myatts;
 *
 * public void startElement (String name, AttributeList
 * atts)
 * {
 *     // create a persistent copy of the attribute list
 *     // for use outside this method
 *     myatts = new AttributeListImpl(atts);
 *     [...]
 * }
 * </pre>
 *
 * <p>Please note that SAX parsers are not required to use this
 * class to provide an implementation of AttributeList; it is
 * supplied only as an optional convenience. In particular,
 * parser writers are encouraged to invent more efficient
 * implementations.</p>
 *
 * @deprecated This class implements a deprecated interface,
 * { @link org.xml.sax.AttributeList AttributeList};
 * that interface has been replaced by
 * { @link org.xml.sax.Attributes Attributes},
 * which is implemented in the
 * { @link org.xml.sax.helpers.AttributesImpl
 * AttributesImpl} helper class.
```

```
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/
```

Found in path(s):

```
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributeListImpl.java
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Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/ConvertToURI.java

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

/\*\*

\* Interface for an element's attribute specifications.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This is the original SAX1 interface for reporting an element's

\* attributes. Unlike the new { @link org.xml.sax.Attributes Attributes }

\* interface, it does not support Namespace-related information.</p>

\*

\* <p>When an attribute list is supplied as part of a

\* { @link org.xml.sax.DocumentHandler#startElement startElement }

\* event, the list will return valid results only during the

\* scope of the event; once the event handler returns control

\* to the parser, the attribute list is invalid. To save a

\* persistent copy of the attribute list, use the SAX1

\* { @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl }

\* helper class.</p>

```

*
* <p>An attribute list includes only
attributes that have been
* specified or defaulted: #IMPLIED attributes will not be included.</p>
*
* <p>There are two ways for the SAX application to obtain information
* from the AttributeList. First, it can iterate through the entire
* list:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   for (int i = 0; i < atts.getLength(); i++) {
*     String name = atts.getName(i);
*     String type = atts.getType(i);
*     String value = atts.getValue(i);
*     [...]
*   }
* }
* </pre>
*
* <p>(Note that the result of getLength() will be zero if there
* are no attributes.)
*
* <p>As an alternative, the application can request the value or
* type of specific attributes:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]
* }
* </pre>
*
* @deprecated This interface has been replaced by the SAX2
*
* { @link org.xml.sax.Attributes Attributes}
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java
```

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\*/

/\*\*

\* **DOM Level 3 WD Experimental:**  
\* The DOM Level 3 specification is at the stage  
\* of Working Draft, which represents work in  
\* progress and thus may be updated, replaced,  
\* or obsoleted by other documents at any time.</strong> <p>  
\* `XPathEvaluator`, which will provide evaluation of XPath 1.0  
\* expressions with no specialized extension  
\* functions or variables. It is  
\* expected that the `XPathEvaluator` interface will be  
\* implemented on the same object which implements the `Document`  
\* interface in an implementation which supports the XPath DOM module.  
\* `XPathEvaluator` implementations may be available from other  
\* sources that may provide support for special extension functions or  
\* variables which are not defined in this specification. The methods of  
\* XPathExpression should be named with more-XPath- specific names because  
\* the interface will often be implemented by the same object which  
\* implements document.No change.The point of interfaces is to localize the  
\* implementing namespace. This would make the method names unnecessarily  
\* long and complex even though there are no conflicts in the interface  
\* itself. The new core method getInterface is designed for discovering  
\* interfaces of additional modules that may not be directly implemented on  
\* the objects  
\* to which they are attached. This could be used to implement  
\* XPath on a separate object. The user only refers to the separate  
\* interfaces and not the proprietary aggregate implementation.Should entity  
\* refs be supported so that queries can be made on them?No change.We will  
\* not do this now. They are not part of the XPath data model. Note that  
\* they may be present in the hierarchy of returned nodes, but may not  
\* directly be requested or returned in the node set.What does createResult  
\* create when one wants to reuse the XPath?It is not useful.Removed method.  
\* Should ordering be a separate flag, or a type of result that can be  
\* requested. As a type of result, it can be better optimized in  
\* implementations.It makes sense as a type of result. Changed.Removed  
\* method.Implementing XPathEvaluator on Document can be a problem due to



\* conflicts in the names of the methods. The working group finds no better  
 \* solution. GetInterface in Level 3 permits the  
 \* object to be implemented  
 \* separately. We should be committed to this. We will leave this issue open  
 \* to see if we get more feedback on it. How does this interface adapt to  
 \* XPath 2.0 and other query languages. No change. This interface is not  
 \* intended to adapt to XPath 2.0 or other languages. The models of these  
 \* are likely to be incompatible enough to require new APIs. For alternate  
 \* implementations that can use this API, it can be obtained from different  
 \* sources. Support for custom variables and functions would be very useful.  
 \* No change. It is possible for an implementation to supply alternative  
 \* sources of an XPathEvaluator that can be customized with a custom  
 \* variable and function context. We do not specify how this is  
 \* accomplished. It is too complex to address in this version of the XPath  
 \* DOM.  
 \* <p>See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object  
 Model (DOM) Level 3 XPath Specification</a>.

#### Found

in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
 jar/org/w3c/dom/xpath/XPathEvaluator.java

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// NO WARRANTY! This class is in the Public Domain.

/\*\*

\* Factory for creating an XML reader.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>

\* for further information.

\* </blockquote>

\*

\* <p>This class contains static methods for creating an XML reader

\* from an explicit class name, or based on runtime defaults:</p>

\*

\* <pre>

\* try {

\* XMLReader myReader = XMLReaderFactory.createXMLReader();

\* } catch (SAXException e) {

\* System.err.println(e.getMessage());

\* }

\* </pre>

\*

\* <p><strong>Note to Distributions bundled with parsers:</strong>

\* You should modify the implementation of the no-arguments  
 \* `createXMLReader` to handle cases where the external  
 \* configuration mechanisms aren't set up. That method should do  
 its  
 \* best to return a parser when one is in the class path, even when  
 \* nothing bound its class name to `org.xml.sax.driver` so  
 \* those configuration mechanisms would see it.

\*  
 \* @since SAX 2.0  
 \* @author David Megginson, David Brownell  
 \* @version 2.0r2pre3  
 \*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
 jar/org/xml/sax/helpers/XMLReaderFactory.java

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/\*\*

\* Encapsulate Namespace logic for use by SAX drivers.

\*

\* `<blockquote>`

\* `<em>`This module, both source code and documentation, is in the

\* Public Domain, and comes with `<strong>NO WARRANTY</strong>`.

\* `</blockquote>`

\*

\* `<p>`This class encapsulates the logic of Namespace processing:

\* it tracks the declarations currently in force for each context

\* and automatically processes qualified XML 1.0 names into their

\* Namespace parts; it can also be used in reverse for generating

\* XML 1.0 from Namespaces.

\*

\* `<p>`Namespace support objects are reusable, but the reset method

\* must be invoked between each session.

\*

\* `<p>`Here is a simple session:

\*

\* `<pre>`

\* `String parts[] = new String[3];`

\* `NamespaceSupport support = new NamespaceSupport();`

\*

\* `support.pushContext();`

\* `support.declarePrefix("", "http://www.w3.org/1999/xhtml");`

\* `support.declarePrefix("dc",`

`"http://www.purl.org/dc#");`

\*

\* `String parts[] = support.processName("p", parts, false);`

```

* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* String parts[] = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* support.popContext();
* </pre>
*
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* @since SAX 2.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/NamespaceSupport.java

```

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```

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*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ranges/RangeException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
*

```

```

/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Notation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/DocumentTraversal.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Attr.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ProcessingInstruction.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/EventException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/TreeWalker.java
*
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/MutationEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Comment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/EntityReference.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/DocumentFragment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CDATASection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Node.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NodeList.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentType.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/DOMImplementation.java
*
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/EventListener.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/NodeIterator.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Entity.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ranges/DocumentRange.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Element.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/Range.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/NodeFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Document.java
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// NO WARRANTY! This class is in the public domain.
/**
* Default base class for SAX2 event handlers.
*

```

```

* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class is available as a convenience base class for SAX2
* applications: it provides default implementations for all of the
* callbacks in the four core SAX2 handler classes:</p>
*
* <ul>
* <li>{ @link org.xml.sax.EntityResolver EntityResolver}</li>
* <li>{ @link org.xml.sax.DTDHandler DTDHandler}</li>
* <li>{ @link org.xml.sax.ContentHandler ContentHandler}</li>
* <li>{ @link org.xml.sax.ErrorHandler ErrorHandler}</li>
* </ul>
*
* <p>Application writers can extend this class when they need to
* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application
has not supplied its own.</p>
*
* <p>This class replaces the deprecated SAX1
* { @link org.xml.sax.HandlerBase HandlerBase } class.</p>
*
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/DefaultHandler.java

```

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```

/**

```

```

* Basic interface for resolving entities.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

\* <p>If a SAX application needs to implement customized handling  
\* for external entities, it must implement this interface and  
\* register an instance with the SAX driver using the  
\* { @link org.xml.sax.XMLReader#setEntityResolver setEntityResolver }  
\* method.</p>

\* <p>The XML reader will then allow the application to intercept any  
\* external entities (including the external DTD subset and external  
\* parameter entities, if any) before including them.</p>

\* <p>Many SAX applications will not need to implement this interface,  
\* but it will be especially useful for applications that build  
\* XML documents from databases or other specialised input sources,  
\* or for applications that use URI types  
\* other than URLs.</p>

\* <p>The following resolver would provide the application  
\* with a special character stream for the entity with the system  
\* identifier "http://www.myhost.com/today":</p>

```
* <pre>  
* import org.xml.sax.EntityResolver;  
* import org.xml.sax.InputSource;  
*  
* public class MyResolver implements EntityResolver {  
*     public InputSource resolveEntity (String publicId, String systemId)  
*     {  
*         if (systemId.equals("http://www.myhost.com/today")) {  
*             // return a special input source  
*             MyReader reader = new MyReader();  
*             return new InputSource(reader);  
*         } else {  
*             // use the default behaviour  
*             return null;  
*         }  
*     }  
* }  
* </pre>
```

\* <p>The application can also use this interface to redirect system  
\* identifiers to local URIs or to look up replacements in a catalog  
\* (possibly by using the public identifier).</p>

\* @since SAX 1.0  
\* @author David Megginson,  
\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
\* @version 2.0  
\* @see org.xml.sax.Parser#setEntityResolver

\* @see org.xml.sax.InputSource

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java

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/\*\*

\* Encapsulate an XML parse error or warning.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This exception will include information for locating the error

\* in the original XML document. Note that although the application

\* will receive a SAXParseException as the argument to the handlers

\* in the { @link org.xml.sax.ErrorHandler ErrorHandler} interface,

\* the application is not actually required to throw the exception;

\* instead, it can simply read the information in it and take a

\* different action.</p>

\*

\* <p>Since this exception is a subclass of { @link org.xml.sax.SAXException

\* SAXException}, it inherits the ability to wrap another exception.</p>

\*

\* @since SAX 1.0

\* @author David Megginson,

\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>

\*

@version 2.0

\* @see org.xml.sax.SAXException

\* @see org.xml.sax Locator

\* @see org.xml.sax.ErrorHandler

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/xml/sax/SAXParseException.java

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Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/package.html

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/package.html

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```

// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p><strong>Note:</strong> despite its name, this interface does
 * <em>not</em> extend the standard Java { @link java.io.Reader Reader}
 * interface, because reading XML is a fundamentally different activity
 * than reading character data.</p>
 *
 * <p>XMLReader is the interface that an XML parser's SAX2 driver must
 * implement. This interface allows an application to set and
 * query features and properties in the parser, to register
 * event handlers for document processing, and to initiate
 * a document parse.</p>
 *
 * <p>All SAX interfaces are assumed to be synchronous: the
 * { @link #parse parse} methods must not return until
 * parsing
 * is complete, and readers must wait for an event-handler callback
 * to return before reporting the next event.</p>
 *
 * <p>This interface replaces the (now deprecated) SAX 1.0 { @link
 * org.xml.sax.Parser Parser} interface. The XMLReader interface
 * contains two important enhancements over the old Parser
 * interface:</p>
 *
 * <ol>
 * <li>it adds a standard way to query and set features and
 * properties; and</li>
 * <li>it adds Namespace support, which is required for many
 * higher-level XML standards.</li>
 * </ol>
 *
 * <p>There are adapters available to convert a SAX1 Parser to
 * a SAX2 XMLReader and vice-versa.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.helpers.ParserAdapter
 * @see org.xml.sax.helpers.XMLReaderAdapter

```



\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java  
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\* details.  
\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHtmlElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java  
\*

/opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLabelElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDocument.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMenuElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLInputElement.java  
\*

/opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadingElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/w3c/dom/html/HTMLDirectoryElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableCellElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLHeadElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLBaseFontElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLUListElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLFrameSetElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLStyleElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLHRElement.java  
\*  
/opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLOptionElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLLOListElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLFieldSetElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLLegendElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLFormElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLCollection.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTextAreaElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLLIElement.java  
\*  
/opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLLinkElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLParamElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableColElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTitleElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLButtonElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLAreaElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-

```
jar/org/w3c/dom/html/HTMLFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLIFrameElement.java
*
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDivElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLImageElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLScriptElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLModElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLOptGroupElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBaseElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLQuoteElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLPreElement.java
*
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMetaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAnchorElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableSectionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLObjectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableCaptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMapElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAppletElement.java
*
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLIsIndexElement.java
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\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/ParserConfigurationException.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/FactoryFinder.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/FactoryConfigurationError.java  
\*  
/opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/SAXParserFactory.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/DocumentBuilderFactory.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/DocumentBuilder.java

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/\*\*

\* Provide an optional convenience implementation of Locator.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This class is available mainly for application writers, who

\* can use it to make a persistent snapshot of a locator at any

\* point during a document parse:</p>

\*

\* <pre>

\* Locator locator;

\* Locator startloc;

\*

\* public void setLocator (Locator locator)

\* {

\* // note the locator

\* this.locator = locator;

\* }

\*

\* public void startDocument ()

\* {

\* // save the location of the start of the document

\* // for future use.

```

* Locator startloc = new LocatorImpl(locator);
* }
* </pre>
*
* <p>Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly
* updating a Locator object.</p>
*
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/LocatorImpl.java

```

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```

// NO WARRANTY! This class is in the Public Domain.

```

```

/**

```

```

* Create a new instance of a class by name.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>

```

```

* for further information.

```

```

* </blockquote>

```

```

*

```

```

* <p>This class contains a static method for creating an instance of a

```

```

* class from an explicit class name. It tries to use the thread's context

```

```

* ClassLoader if possible and falls back to using

```

```

* Class.forName(String). It also takes into account JDK 1.2+'s

```

```

* AccessController mechanism for performing its actions. </p>

```

```

*

```

```

* <p>This code is designed to run on JDK version 1.1 and later and compile

```

```

* on versions of Java 2 and later.</p>

```

```

*

```

```

* @author Edwin Goei, David Brownell, Neil Graham

```

```

* @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45

```

```

* neilg Exp $

```

```

*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

```

jar/org/xml/sax/helpers/NewInstance.java

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```
/**
 * A single input source for an XML entity.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class allows a SAX application to encapsulate information
 * about an input source in a single object, which may include
 * a public identifier, a system identifier, a byte stream (possibly
 * with a specified encoding), and/or a character stream.</p>
 *
 * <p>There are two places that the application will deliver this
 * input source to the parser: as the argument to the Parser.parse
 * method, or as the return value of the EntityResolver.resolveEntity
 * method.</p>
 *
 * <p>The SAX parser will use the InputSource object to determine how
 * to read XML input. If there is a character stream available, the
 * parser will read that stream directly; if not, the parser will use
 * a byte stream,
 * if available; if neither a character stream nor a
 * byte stream is available, the parser will attempt to open a URI
 * connection to the resource identified by the system
 * identifier.</p>
 *
 * <p>An InputSource object belongs to the application: the SAX parser
 * shall never modify it in any way (it may modify a copy if
 * necessary).</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#parse
 * @see org.xml.sax.EntityResolver#resolveEntity
 * @see java.io.InputStream
 * @see java.io.Reader
 */
```

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/InputSource.java

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```
// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class wraps a SAX1 { @link org.xml.sax.Parser Parser }
 * and makes it act as a SAX2 { @link org.xml.sax.XMLReader XMLReader },
 * with feature, property, and Namespace support. Note
 * that it is not possible to report { @link org.xml.sax.ContentHandler#skippedEntity
 * skippedEntity } events, since SAX1 does not make that information available.</p>
 *
 * <p>This adapter does not test for duplicate Namespace-qualified
 * attribute names.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.helpers.XMLReaderAdapter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.Parser
 */
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * <p>This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
 *
 * <p>This wrapper class is used only when Namespace support
 * is disabled -- it provides pretty much a direct mapping
 * from SAX1 to SAX2, except that names and types are
 * interned whenever requested.</p>
 */
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/ParserAdapter.java
```

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```
/**
 * Receive notification of general document events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
```



```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This was the main event-handling interface for SAX1; in
* SAX2, it has been replaced by { @link org.xml.sax.ContentHandler
* ContentHandler}, which provides Namespace support and reporting
* of skipped entities. This interface is included in SAX2 only
* to support legacy SAX1 applications.</p>
*
* <p>The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
*
* <p>Application writers who do not want to implement
the entire
* interface can derive a class from HandlerBase, which implements
* the default functionality; parser writers can instantiate
* HandlerBase to obtain a default handler. The application can find
* the location of any document event using the Locator interface
* supplied by the Parser through the setDocumentLocator method.</p>
*
* @deprecated This interface has been replaced by the SAX2
*   { @link org.xml.sax.ContentHandler ContentHandler}
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDocumentHandler
* @see org.xml.sax.Locator
* @see org.xml.sax.HandlerBase
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/DocumentHandler.java

```

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```

/**

```

```

* Encapsulate a general SAX error or warning.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>This class can contain basic error or warning information from
* either the XML parser or the application: a parser writer or
* application writer can subclass it to provide additional
* functionality. SAX handlers may throw this exception or
* any exception subclassed from it.</p>
*
* <p>If the application needs to pass through other types of
* exceptions, it must wrap those exceptions in a SAXException
* or an exception derived from a SAXException.</p>
*
* <p>If the parser or application needs to include information about a
* specific location in an XML document, it should use the
* { @link org.xml.sax.SAXParseException SAXParseException } subclass.</p>
*
* @since SAX 1.0
* @author
David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXParseException
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXException.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html
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```

```

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```

```

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\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SecuritySupport12.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/SecuritySupport12.java

\*

/opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/SecuritySupport.java

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```
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```

```
/**
```

```
* Exception class for an unrecognized identifier.
```

```
*
```

```
* <blockquote>
```

```
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```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>An XMLReader will throw this exception when it finds an
```

```
* unrecognized feature or property identifier; SAX applications and
```

```
* extensions may use this class for other, similar purposes.</p>
```

```
*
```

```
* @since SAX 2.0
```

```
* @author David Megginson,
```

```
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 2.0
```

```
* @see org.xml.sax.SAXNotSupportedException
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java

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```
// NO WARRANTY! This class is in the public domain.
/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>This class provides a default implementation of the SAX2
 * { @link org.xml.sax.Attributes Attributes } interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * <p>There are two typical uses of this class:</p>
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * <p>This class replaces the
 * now-deprecated SAX1 { @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated { @link org.xml.sax.AttributeList
 * AttributeList } interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
 *
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */
```

Found in path(s):

```
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributesImpl.java
```

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```
/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```

* </blockquote>
*
* <p>This was the main event supplier interface for SAX1; it has
* been replaced in SAX2 by { @link org.xml.sax.XMLReader XMLReader },
* which includes Namespace support and sophisticated configurability
* and extensibility.</p>
*
* <p>All SAX1 parsers must implement this basic interface: it allows
* applications to register handlers for different types of events
* and to initiate a parse from a URI, or a character stream.</p>
*
* <p>All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
*
* <p>SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input
* source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
*     { @link org.xml.sax.XMLReader XMLReader }
*     interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@meggins.com">sax@meggins.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
```

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```
// Public Domain: no warranty.
```

```
/**
```

```
* SAX2 extension handler for lexical events.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

\* <p>This is an optional extension handler for SAX2 to provide  
 \* lexical information about an XML document, such as comments  
 \* and CDATA section boundaries; XML readers are not required to  
 \* support this handler, and it is not part of the core SAX2  
 \* distribution.</p>  
 \*  
 \* <p>The events in the lexical handler apply to the entire document,  
 \* not just to the document element, and all lexical handler events  
 \* must appear between the content handler's startDocument and  
 \* endDocument events.</p>  
 \*  
 \* <p>To set the LexicalHandler for an XML reader, use the  
 \* { @link org.xml.sax.XMLReader#setProperty setProperty } method  
 \* with the propertyId "http://xml.org/sax/properties/lexical-handler".  
 \* If the reader does not support lexical events, it will throw a  
 \* { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }  
 \* or a  
 \* { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }  
 \* when you attempt to register the handler.</p>  
 \*  
 \* @since 1.0  
 \* @author David Megginson,  
 \* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
 \* @version 1.0  
 \* @see org.xml.sax.XMLReader#setProperty  
 \* @see org.xml.sax.SAXNotRecognizedException  
 \* @see org.xml.sax.SAXNotSupportedException  
 \*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
 jar/org/xml/sax/ext/LexicalHandler.java

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\*/

/\*\*

\* Create a new <code>DOMBuilder</code>. The newly constructed parser may  
 \* then be configured by means of its <code>setFeature</code> method,

- \* and used to parse documents by means of its `parse` method.
- \* `@param mode` The `mode` argument is either `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`,

if

- \* `mode` is `MODE_SYNCHRONOUS` then the `DOMBuilder` that is created will operate in synchronous mode, if it's `MODE_ASYNCHRONOUS` then the `DOMBuilder` that is created will operate in asynchronous mode.
- \* `@param schemaType` An absolute URI representing the type of the schema language used during the load of a `Document` using the newly created `DOMBuilder`. Note that no lexical checking is done on the absolute URI. In order to create a `DOMBuilder` for any kind of schema types (i.e. the `DOMBuilder` will be free to use any schema found), use the value `null`. For W3C XML Schema , applications must use the value `"http://www.w3.org/2001/XMLSchema"`. For XML DTD , applications must use the value `"http://www.w3.org/TR/REC-xml"`.

#### Other Schema languages

- \* are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.
- \* `@return` The newly created `DOMBuilder` object. This `DOMBuilder` is either synchronous or asynchronous depending on the value of the `mode` argument. By default, the newly created `DOMBuilder` does not contain a `DOMErrorHandler`, i.e. the value of the `errorHandler` is `null`. However, implementations may provide a default error handler at creation time. In that case, the initial value of the `errorHandler` attribute on the new created `DOMBuilder` contains a reference to the default error handler.
- \* `@exception DOMException`
- \* `NOT_SUPPORTED_ERR`: Raised if the requested mode or schema type is not

supported.

\*/

Found in path(s):

`/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMImplementationLS.java`

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/\*\*

\* Exception class for an unsupported operation.



```

*
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>An XMLReader will throw this exception when it recognizes a
* feature or property identifier, but cannot perform the requested
* operation (setting a state or value). Other SAX2 applications and
* extensions may use this class for similar purposes.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXNotRecognizedException
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/SAXNotSupportedException.java

```

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```
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```

```
/**
```

```
* SAX2 extension handler for DTD declaration events.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>This is an optional extension handler for SAX2 to provide
```

```
* information about DTD declarations in an XML document. XML
```

```
* readers are not required to support this handler, and this
```

```
* handler is not included in the core SAX2 distribution.</p>
```

```
*
```

```
* <p>Note that data-related DTD declarations (unparsed entities and
```

```
* notations) are already reported through the { @link
```

```
* org.xml.sax.DTDHandler DTDHandler} interface.</p>
```

```
*
```

```
* <p>If you are using the declaration handler together with a lexical
```

```
* handler, all of the events will occur between the
```

```
* { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the
```

```
* { @link org.xml.sax.ext.LexicalHandler#endDTD
```

```
* endDTD} events.</p>
```

```
*
```

```
* <p>To set the DeclHandler for an XML reader, use the
```

```

* { @link org.xml.sax.XMLReader#setProperty setProperty } method
* with the propertyId "http://xml.org/sax/properties/declaration-handler".
* If the reader does not support declaration events, it will throw a
* { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }
* or a
* { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }
* when you attempt to register the handler.</p>
*
* @since 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 1.0
* @see org.xml.sax.XMLReader
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java
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```

```

/**
* Java-specific class for dynamically loading SAX parsers.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p><strong>Note:</strong> This class is designed to work with the now-deprecated
* SAX1 { @link org.xml.sax.Parser Parser } class. SAX2 applications should use
* { @link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory } instead.</p>
*
* <p>ParserFactory is not part of the platform-independent definition
* of SAX; it is an additional convenience class designed
* specifically for Java XML application writers. SAX applications
* can use the static methods in this class to allocate a SAX parser
* dynamically at run-time based either on the value of the
* `org.xml.sax.parser'
* system property or on a string containing the class
* name.</p>
*
* <p>Note that the application still requires an XML parser that
* implements SAX1.</p>
*
* @deprecated This class works with the deprecated
*   { @link org.xml.sax.Parser Parser }
*   interface.

```

\* @since SAX 1.0  
\* @author David Megginson  
\* @version 2.0r2pre3  
\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/ParserFactory.java

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// NO WARRANTY! This class is in the public domain.

/\*\*

\* Adapt a SAX2 XMLReader as a SAX1 Parser.

\*

\* <blockquote>

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\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This class wraps a SAX2 { @link org.xml.sax.XMLReader XMLReader }

\* and makes it act as a SAX1 { @link org.xml.sax.Parser Parser}. The XMLReader

\* must support a true value for the

\* <http://xml.org/sax/features/namespace-prefixes> property or parsing will fail

\* with a { @link org.xml.sax.SAXException SAXException}; if the XMLReader

\* supports a false value for the <http://xml.org/sax/features/namespaces>

\* property, that will also be used to improve efficiency.</p>

\*

\* @since SAX 2.0

\* @author David Megginson,

\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>

\* @version 2.0

\* @see org.xml.sax.Parser

\* @see org.xml.sax.XMLReader

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/XMLReaderAdapter.java

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\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FilePathToURI.java

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// NO WARRANTY! This class is in the public domain.

/\*\*

\* Receive notification of the logical content of a document.

\*

\* <blockquote>

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\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This is the main interface that most SAX applications

\* implement: if the application needs to be informed of basic parsing

\* events, it implements this interface and registers an instance with

\* the SAX parser using the { @link org.xml.sax.XMLReader#setContentHandler

\* setContentHandler} method. The parser uses the instance to report

\* basic document-related events like the start and end of elements

\* and character data.</p>

\*

\* <p>The order of events in this interface is very important, and

\* mirrors the order of information in the document itself. For

\* example, all of an element's content (character data,

processing

\* instructions, and/or subelements) will appear, in order, between

\* the startElement event and the corresponding endElement event.</p>

\*

\* <p>This interface is similar to the now-deprecated SAX 1.0

\* DocumentHandler interface, but it adds support for Namespaces

\* and for reporting skipped entities (in non-validating XML

\* processors).</p>

\*

\* <p>Implementors should note that there is also a Java class

\* { @link java.net.ContentHandler ContentHandler} in the java.net

\* package; that means that it's probably a bad idea to do</p>

\*

\* <blockquote>

\* import java.net.\*;

\* import org.xml.sax.\*;

\* </blockquote>

\*

\* <p>In fact, "import ...\*" is usually a sign of sloppy programming

\* anyway, so the user should consider this a feature rather than a

```
* bug.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@meggins.com">sax@meggins.com</a>
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/
```

Found in path(s):

```
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java
```

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\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee\_web\_services\_1\_1.xsd

\*

/opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/datatypes.dtd  
\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee\_1\_4.xsd  
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guarantee element specifies that the communication  
between client and server should be NONE, INTEGRAL, or  
CONFIDENTIAL. NONE means that the application does not require any  
transport guarantees. A value of INTEGRAL means that the application  
requires that the data sent between the client and server be sent in  
such a way that it can't be changed  
in transit. CONFIDENTIAL means  
that the application requires that the data be transmitted in a  
fashion that prevents other entities from observing the contents of  
the transmission. In most cases, the presence of the INTEGRAL or  
CONFIDENTIAL flag will indicate that the use of SSL is required.

Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-app\_2\_2.dtd  
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INF subdirectory, along with the  
appropriate implementing classes, and other resources required to  
implement the tags defined therein.

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Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/web-jsptaglibrary\_1\_2.dtd



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Manifest-Version: 1.0  
Archiver-Version: Plexus Archiver  
Created-By: 1.5.0\_13 (Sun Microsystems Inc.)  
Built-By: janb  
Build-Jdk: 1.5.0\_13  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>  
Bundle-RequiredExecutionEnvironment: J2SE-1.4  
Specification-Version: 2.5  
Bnd-LastModified: 1229016831353  
Export-Package: javax.servlet.http;uses:="javax.servlet";version="2.5"  
,javax.servlet;version="2.5",javax.servlet.resources;version="2.5",ja  
vax.servlet.jsp.resources;version="2.5"  
Bundle-Version: 2.5  
Ignore-Package: javax.servlet.http,javax.servlet,javax.servlet.resourc  
es,javax.servlet.jsp.resources  
Bundle-Name: Servlet Specification API  
Bundle-Description: Servlet Specification API  
Bundle-DocURL: <http://www.mortbay.com>  
Originally-Created-By: 1.5.0\_13 (Sun Microsystems Inc.)  
Bundle-Vendor: Mort Bay Consulting  
Bundle-ManifestVersion: 2  
Bundle-SymbolicName: org.mortbay.jetty.servlet-api  
Tool: Bnd-0.0.238  
Implementation-Vendor:  
JCP

Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-  
jar/javax/servlet/jsp/resources/jsp\_2\_1.xsd

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-  
jar/javax/servlet/resources/javaee\_web\_services\_client\_1\_2.xsd

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-  
jar/javax/servlet/resources/javaee\_5.xsd

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-  
jar/javax/servlet/resources/jsp\_2\_1.xsd

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INTEGRAL, or CONFIDENTIAL. NONE means that the  
CONFIDENTIAL means that the application requires that  
INTEGRAL or CONFIDENTIAL flag will indicate that the use  
<xsd:enumeration value="CONFIDENTIAL" />

Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-app\_2\_5.xsd

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Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/web-jsptaglibrary\_2\_0.xsd

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/jsp\_2\_0.xsd

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jsp\_2\_0.xsd

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jspxml.xsd

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jspxml.dtd

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distributed under licenses restricting their use, copying,  
CONFIDENTIAL. NONE means that the application does not  
changed in transit. CONFIDENTIAL means that the application  
CONFIDENTIAL flag will indicate that the use of SSL is  
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-app\_2\_4.xsd

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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

Found in path(s):

\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-app\_2\_3.dtd

# 1.1001 datatype 1.3.04

## 1.1001.1 Available under license :

xml-commons/java/external/README.dom.txt \$Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas \$

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<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html>

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<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/>  
<http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/>  
<http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/>

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

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>

The specification of DOM Level 1's various parts is at:

<http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html>

Links to all available W3C DOM Java Bindings can be found at:

<http://www.w3.org/DOM/DOMTR>

The actual classes of The Simple API for CSS (SAC) came from:

<http://www.w3.org/Style/CSS/SAC/>

<http://www.w3.org/2002/06/sacjava-1.3.zip>

The actual DOM Java Language Binding

classes for SMIL came from:

<http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/>

(both `ElementTimeControl.java` and `TimeEvent.java` were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:

<http://www.w3.org/TR/SVG11/java.html>

`xml-commons/java/external/README.sax.txt` \$Id: README.sax.txt 225954 2002-01-31 23:26:48Z curcuru \$

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and all subdirectories

`xml-commons/java/external/xdocs/sax`

and all subdirectories

The actual SAX classes in xml-commons came from:

<http://www.megginson.com/Software/index.html>

The original versions are tagged 'SAX-2\_0-r2-prerelease'

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```
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Tf\*"8f\*f(a[Xn@\${ YQa/=HHHb,WAG  
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2000-05-05



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# 1.1005 xml-commons-resolver 1.2

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# 1.1022 activemq-kahadb-store 5.15.4

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## 1.1026 gophercloud v0.1.0

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Step 5: Writing the Code

=====

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a very rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

## Types of Pull Requests

-----

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

###

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for `_each_` field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for `_each_` call.

The following Pull Requests are good examples of how to do this:

- \* <https://github.com/gophercloud/gophercloud/pull/584>
- \* <https://github.com/gophercloud/gophercloud/pull/586>
- \* <https://github.com/gophercloud/gophercloud/pull/587>
- \*
- <https://github.com/gophercloud/gophercloud/pull/594>

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource.

However, please make sure to thoroughly review and edit it as needed.

Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### ### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

### What to Include in a Pull Request

-----

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### ### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### ### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### ### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

### Dealing with Related Pull Requests

-----

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### ### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
```

Advantages of this Method:

- \* Pull Requests can be merged in any order
- \* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

- \* There will be a lot of duplicate code in each Pull Request
- \* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### ### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.



Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
```

Advantages of this Method:

- \* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

- \* If a Pull Request requires changes, you will have to rebase

`_all_child`

Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

package RESOURCE

```
import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)
```

```
// RESOURCE represents...
```

```
type Resource struct {
}
```

```
type commonResult struct {
    gophercloud.Result
}
```

```
// GetResult is the response from a Get operation. Call its Extract method
```

```

// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether
// or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

```

```

}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return
    s.Resource, err
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {

```

```

query, err := opts.ToResourceListQuery()
if err != nil {
    return pagination.Pager{Err: err}
}
url += query
}
return pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})
}

//
// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes

```

```

a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{ }, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{ }, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

```

## Contributor Tutorial

```
=====
```

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 6: Code Review

```
=====
```

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
  - a. Unit Tests
  - b. Code Formatting checks
  - c. ``go vet`` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a ``[wip]`` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

#### ### Travis-CI

If Travis reports code formatting issues, please make sure to run ``gofmt`` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

#### ### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is ``_sometimes_`` unavoidable and ignorable.

#### ### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

-----

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

#### Submitting Changes

-----

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

#### It's Never Personal

-----

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).  
package testing

import (

```

"fmt"
"net/http"
"testing"

"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
th "github.com/gophercloud/gophercloud/testhelper"
"github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

```



```

// ExpectedResourcesSlice is the
// slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t,
            r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.

```

```

func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r,
            "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)

        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
package testing

import (
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
    err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
        count++

        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)

        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })
}

```

```

    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t,
    err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")

```

```

th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts
:= resources.UpdateOpts{
Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

```

#### Step 4: Acceptance Testing

=====

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you must be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [[here](#)](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/\*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

\*/

package RESOURCE

Step 7: Congratulations!

=====

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

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### Step 3: Code Hunting

=====

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:

[<https://github.com/gophercloud/gophercloud/issues/621>](<https://github.com/gophercloud/gophercloud/issues/621>).

In this issue, there's a request being made to add support for

``availability_zone_hints`` to the ``networking/v2/networks`` package.

Meaning, we want to change:

```
```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
}
```

```
TenantID string `json:"tenant_id"`
Shared   bool  `json:"shared"`
}
```
```

to look like

```
```go
type Network struct {
    ID          string `json:"id"`
    Name        string `json:"name"`
    AdminStateUp bool   `json:"admin_state_up"`
    Status      string `json:"status"`
    Subnets    []string `json:"subnets"`
    TenantID    string `json:"tenant_id"`
    Shared      bool   `json:"shared"`

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```
```

We need to be sure that `availability\_zone\_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability\_zone\_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](<https://developer.openstack.org/api-ref/network/v2/>). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

- > Note: when we say the API docs might be incorrect, we are not implying
- > that the API docs aren't
- useful or that the contributors who work on the API
- > docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
- > documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability\_zone\_hints` in the following piece of code:

<https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network>.

py#L191

The above code confirms that ``availability_zone_hints`` is indeed part of the ``Network`` object and that its type is a list of strings (`[]string``).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is `_not_` fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

- \* <https://github.com/gophercloud/gophercloud/issues/539>
- \* <https://github.com/gophercloud/gophercloud/issues/555>
- \* <https://github.com/gophercloud/gophercloud/issues/571>
- \* <https://github.com/gophercloud/gophercloud/issues/583>
- \* <https://github.com/gophercloud/gophercloud/issues/605>

#### Code Hunting Tips

-----

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

- \* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.
- \* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.
- \* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

=====

There are two introductory guides you should read before proceeding:

- \* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud

and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

\* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

## Step 2: Create an Issue

=====

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

## Reporting a Bug

-----

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

- \* <https://github.com/gophercloud/gophercloud/issues/108>
- \* <https://github.com/gophercloud/gophercloud/issues/212>
- \* <https://github.com/gophercloud/gophercloud/issues/424>
- \* <https://github.com/gophercloud/gophercloud/issues/588>
- \* <https://github.com/gophercloud/gophercloud/issues/629>
- \* <https://github.com/gophercloud/gophercloud/issues/647>

## Feature Request

-----

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### ### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing

response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect `_all_` of Gophercloud.

The following issues are examples of core change discussions:

- \* <https://github.com/gophercloud/gophercloud/issues/310>
- \* <https://github.com/gophercloud/gophercloud/issues/613>
- \* <https://github.com/gophercloud/gophercloud/issues/729>
- \* <https://github.com/gophercloud/gophercloud/issues/713>

### ### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

- \* <https://github.com/gophercloud/gophercloud/issues/620>
- \* <https://github.com/gophercloud/gophercloud/issues/621>
- \* <https://github.com/gophercloud/gophercloud/issues/658>

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](<https://github.com/gophercloud/gophercloud/issues/749>) issue.

Here, a user reported fields missing in the ``Get`` function of ``networking/v2/networks``. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in ``networking/v2/extensions``.

### ### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

- \* <https://github.com/gophercloud/gophercloud/issues/715>
- \*
- <https://github.com/gophercloud/gophercloud/issues/719>

You'll want to make sure the API call is part of the upstream OpenStack project

and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### ### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

- \* <https://github.com/gophercloud/gophercloud/issues/539>
- \* <https://github.com/gophercloud/gophercloud/issues/555>
- \* <https://github.com/gophercloud/gophercloud/issues/571>
- \* <https://github.com/gophercloud/gophercloud/issues/583>
- \* <https://github.com/gophercloud/gophercloud/issues/605>

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for `_issues_`, but it's usually a good idea to provide them, anyway. These links `_are required_` for PRs and that will be covered in detail in a later step of this tutorial.

### ### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

- \* <https://github.com/gophercloud/gophercloud/issues/723>

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

package RESOURCE

```
import "github.com/gophercloud/gophercloud"
```

```
func listURL(client *gophercloud.ServiceClient) string {  
    return client.ServiceURL("resource")  
}
```

```

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

```

# 1.1027 activation 1.1

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\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/MapBasedValueSource.java

\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/EnvBasedValueSource.java

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\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/SimpleRecursionInterceptor.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/PrefixedValueSourceWrapper.java  
\*  
/opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/AbstractFunctionValueSourceWrapper.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/PropertiesBasedValueSource.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/ValueSource.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/QueryEnabledValueSource.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/Interpolator.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/FeedbackEnabledValueSource.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/RecursionInterceptor.java  
\*  
/opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/RegexBasedInterpolator.java  
\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/PrefixAwareRecursionInterceptor.java  
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\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/util/ValueSourceUtils.java

\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-jar/org/codehaus/plexus/interpolation/reflection/ReflectionValueExtractor.java

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\* Determines if the current OS matches the given OS  
\* version.  
\*  
\* @param version the OS version to check for  
\* @return true if the OS matches  
\* @since 1.0  
\*/

Found in path(s):

\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-  
jar/org/codehaus/plexus/interpolation/os/Os.java

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\* /opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-  
jar/org/codehaus/plexus/interpolation/PrefixPropertiesValueSource.java  
\*  
/opt/cola/permits/1257497030\_1642830210.11/0/plexus-interpolation-1-3-sources-  
jar/org/codehaus/plexus/interpolation/PrefixObjectValueSource.java

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# 1.1031 aop-alliance 2.5.0

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\* /opt/cola/permits/1278352646\_1645804613.94/0/jar-files-zip/jchronic-0-2-8-jar/META-INF/maven/com.rubiconproject.oss/jchronic/pom.xml

# 1.1032 servlet-api 3.1.0

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Last revised by Reagle \$Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005)

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2000-05-05

# 1.1034 prometheus-client 1.1.0

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jar/com/google/common/util/concurrent/internal/InternalFutures.java

\* /opt/cola/permits/1349013147\_1655879756.6643403/0/failureaccess-1-0-1-sources-4-  
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\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/google/protobuf/type.proto  
\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/FloatArrayList.java  
\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/BlockingRpcChannel.java  
\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/GeneratedMessageInfoFactory.java  
\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/CodedOutputStream.java  
\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/Writer.java  
\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/google/protobuf/timestamp.proto  
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/opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/TextFormat.java  
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\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/TextFormatEscaper.java  
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\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/RpcController.java  
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\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/InvalidProtocolBufferException.java  
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jar/com/google/protobuf/NewInstanceSchemas.java  
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\* /opt/cola/permits/1456224347\_1667204118.999121/0/protobuf-java-3-9-1-sources-1-jar/com/google/protobuf/FieldType.java  
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# 1.1038 commons-compress 1.7

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* /opt/cola/permits/1608369443_1681853251.599929/0/tycho-core-1-0-0-sources-1-
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jar/org/eclipse/tycho/core/ArtifactDependencyVisitor.java
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jar/org/eclipse/tycho/core/osgitools/UpdateSiteProject.java
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jar/org/eclipse/tycho/core/osgitools/OsgiTestBundleProject.java
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* /opt/cola/permits/1608369443_1681853251.599929/0/tycho-core-1-0-0-sources-1-
jar/org/eclipse/tycho/core/ArtifactDependencyWalker.java
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jar/org/eclipse/tycho/core/osgitools/BundleReader.java
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jar/org/eclipse/tycho/core/BundleProject.java
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jar/org/eclipse/tycho/core/osgitools/targetplatform/DefaultDependencyArtifacts.java
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jar/org/eclipse/tycho/core/PluginDescription.java
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jar/org/eclipse/tycho/core/p2/P2ArtifactRepositoryLayout.java
*
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jar/org/eclipse/tycho/core/osgitools/DefaultClasspathEntry.java
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jar/org/eclipse/tycho/core/p2/P2RepositoryConnectorFactory.java
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jar/org/eclipse/tycho/core/osgitools/targetplatform/LocalDependencyResolver.java
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jar/org/eclipse/tycho/core/ee/CustomExecutionEnvironment.java  
\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-  
jar/org/eclipse/tycho/osgi/configuration/RepositorySettingsConfigurator.java  
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\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/osgitools/project/EclipsePluginProjectImpl.java

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\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/osgi/configuration/OSGiProxyConfigurator.java

\*  
/opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/osgi/runtime/TychoOsgiRuntimeArtifacts.java

\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/osgi/runtime/TychoOsgiRuntimeLocator.java  
\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/osgi/runtime/TychoOsgiRuntimeMainArtifacts.java  
\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/osgitools/AbstractArtifactDependencyWalker.java  
\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/osgitools/AbstractTychoProject.java

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\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/resolver/DefaultTargetPlatformConfigurationReader.java  
\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/DependencyResolver.java

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\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/TargetPlatformConfiguration.java

\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/osgitools/OsgiBundleProject.java

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\* /opt/cola/permits/1608369443\_1681853251.599929/0/tycho-core-1-0-0-sources-1-jar/org/eclipse/tycho/core/ee/UnknownEnvironmentException.java

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- \* /opt/cola/permits/1910179456\_1708058134.949558/0/asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/FrameNode.java
- \* /opt/cola/permits/1910179456\_1708058134.949558/0/asm-all-3-3-1-sources-7-jar/org/objectweb/asm/FieldVisitor.java
- \* /opt/cola/permits/1910179456\_1708058134.949558/0/asm-all-3-3-1-sources-7-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
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\* /opt/cola/permits/1910179456\_1708058134.949558/0/asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/LocalVariableNode.java

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jar/org/objectweb/asm/xml/ASMContentHandler.java  
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```
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```

```
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- \*/

Found in path(s):

- \* /opt/cola/permits/1910179456\_1708058134.949558/0/asm-all-3-3-1-sources-7-jar/org/objectweb/asm/util/Traceable.java
- \* /opt/cola/permits/1910179456\_1708058134.949558/0/asm-all-3-3-1-sources-7-jar/org/objectweb/asm/util/ASMifiable.java

## 1.1046 jansi-native 1.8

### 1.1046.1 Available under license :

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

```

/*
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 * limitations under the License.
 */

```

Found in path(s):

```
* /opt/cola/permits/1975030041_1713208981.6584957/0/jansi-native-1-8-sources-3-
jar/org/fusesource/jansi/internal/WindowsSupport.java
* /opt/cola/permits/1975030041_1713208981.6584957/0/jansi-native-1-8-sources-3-
jar/org/fusesource/jansi/internal/CLibrary.java
* /opt/cola/permits/1975030041_1713208981.6584957/0/jansi-native-1-8-sources-3-
jar/org/fusesource/jansi/internal/Kernel32.java
```

# 1.1047 jsr305 3.0.2

## 1.1047.1 Available under license :

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.sonatype.oss</groupId>
    <artifactId>oss-parent</artifactId>
    <version>7</version>
    <relativePath />
  </parent>

  <groupId>com.google.code.findbugs</groupId>
  <artifactId>jsr305</artifactId>
  <version>3.0.2</version>
  <packaging>jar</packaging>

  <url>http://findbugs.sourceforge.net/</url>
  <name>FindBugs-jsr305</name>
  <description>JSR305 Annotations for Findbugs</description>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

  <prerequisites>
    <maven>3.0</maven>
  </prerequisites>

  <scm>
    <connection>scm:git:https://code.google.com/p/jsr-305/</connection>
    <developerConnection>scm:git:https://code.google.com/p/jsr-305/</developerConnection>
    <url>https://code.google.com/p/jsr-305/</url>
  </scm>
```

```

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>2.9.1</version>
      <executions>
        <execution>
          <phase>package</phase>
          <goals>
            <goal>jar</goal>
          </goals>
          <configuration>
            <quiet>>true</quiet>
          </configuration>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.0</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>2.4</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>2.4.0</version>
      <extensions>>true</extensions>
      <executions>
        <execution>

```



```

<id>bundle-manifest</id>
<phase>process-classes</phase>
<goals>
  <goal>manifest</goal>
</goals>
</execution>
</executions>
<configuration>
<instructions>
  <Bundle-SymbolicName>org.jsr-305</Bundle-SymbolicName>
  <Bundle-Name>${project.name}</Bundle-Name>
  <Export-Package>javax.annotation;javax.annotation.concurrent;javax.annotation.meta</Export-Package>
</instructions>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-jar-plugin</artifactId>
<version>2.4</version>
<configuration>
<archive>
  <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
</archive>
</configuration>
</plugin>
<plugin>
<groupId>org.sonatype.plugins</groupId>
<artifactId>nexus-staging-maven-plugin</artifactId>
<version>1.6.3</version>
<extensions>true</extensions>
<configuration>
<serverId>ossrh</serverId>
<nexusUrl>https://oss.sonatype.org</nexusUrl>
<autoReleaseAfterClose>true</autoReleaseAfterClose>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-gpg-plugin</artifactId>
<version>1.5</version>
<executions>
<execution>
  <id>sign-artifacts</id>
  <phase>verify</phase>
  <goals>
    <goal>sign</goal>
  </goals>
</execution>

```

```
</executions>
</plugin>
</plugins>
</build>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1982448225_1713767424.6824625/0/jsr305-3-0-2-14-jar/META-
INF/maven/com.google.code.findbugs/jsr305/pom.xml
No license file was found, but licenses were detected in source scan.
```

Manifest-Version: 1.0

Bundle-Description: JSR305 Annotations for Findbugs

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

Bundle-SymbolicName: org.jsr-305

Archiver-Version: Plexus Archiver

Built-By: lan

Bnd-LastModified: 1490936130302

Bundle-ManifestVersion: 2

Tool: Bnd-2.1.0.20130426-122213

Export-Package: javax.annotation;uses="javax.annotation.meta";version
="3.0.2",javax.annotation.concurrent;version="3.0.2",javax.annotation
.meta;uses="javax.annotation";version="3.0.2"

Bundle-Name: FindBugs-jsr305

Bundle-Version: 3.0.2

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_101

Found in path(s):

```
* /opt/cola/permits/1982448225_1713767424.6824625/0/jsr305-3-0-2-14-jar/META-INF/MANIFEST.MF
```

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