



# Open Source Used In Elastic Services Controller 5.1

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

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

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

Contributors:

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

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## 2.6 audit-libs 2.3.7 :5.e16

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

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```
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This is free software, and you are welcome to redistribute it  
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```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 2.7 authd 1.4.3 :31.el6\_4

### 2.7.1 Available under license :

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Version 2, June 1991

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```

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## 2.8 avahi 0.6.25 :15.el6

### 2.8.1 Available under license :

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Version 2.1, February 1999

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

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

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

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```
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!

```
#!/bin/sh
```

```
# $Id$
```

```
#
```

```
# This file is part of avahi.
```

```
#
```

```
# avahi 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 2 of the  
# License, or (at your option) any later version.
```

```
#
```

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```

```
#
```

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

```
set -e
```

```
# Command line arguments:
```

```
# $1 event that happened:
```

```
# BIND: Successfully claimed address
```

```
# CONFLICT: An IP address conflict happened
```

```
# UNBIND: The IP address is no longer needed
```

```
# STOP: The daemon is terminating
```

```
# $2 interface name
```

```
# $3 IP address
```

```
# We have the BSD ifconfig tool
```

```
case "$1" in
```

```
BIND)
```

```
    ifconfig "$2" "$3"/16
```

```
    ;;
```

```
CONFLICT|STOP|UNBIND)
```

```
    ifconfig "$2" "$3"/16 delete
```

```
    ;;
```

```
*)
```

```
    echo "Unknown event $1" >&2
```



```
exit 1
;;
esac

exit 0
```

## 2.9 aws-java-sdk-core 1.11.158

### 2.9.1 Available under license :

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## 2.11 axis 1.2.1 :7.5.el6\_5

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```
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 * $Revision: 1.1 $
 * $Date: 2002/07/25 02:36:45 $
 *
 * =====
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 * 
```

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```

\* \$Revision: 1.1 \$

\* \$Date: 2005/04/22 14:42:41 \$

\*

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

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\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
```

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the  
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->  
  
<!-- $Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->  
  
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->  
  
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">  
  
<xsl:template name="isc.copyright.format">
```

```

<xsl:param name="text"/>
<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', '')">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>

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```

</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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Author: Julio Merino <jmmv@users.sourceforge.net>

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Author: Julio Merino <jmmv@NetBSD.org>

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`:  
These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream`

classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

<!--

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-->

<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.
  </xsl:text>

```

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```

</xsl:text>
</xsl:variable>

```

```

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>

```

```

</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 2.17 binutils 2.27

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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.

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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.

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@cindex LGPL, Lesser General Public License  
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@appendixsubsec Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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@appendixsubsec How to Apply These Terms to Your New Libraries

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

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```
@end smallexample
```

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

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
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## Preamble

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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That's all there is to it!  
(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host

ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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## 2.18 class-model 2.5.0-b32

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## 2.19 classmate 1.3.3

### 2.19.1 Available under license :

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

Other developers who have contributed code are:

\* Brian Langel

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## 2.20 classpathx-jaf 1.0 :15.4.e16

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## 2.22 cloog-ppl 0.15.7 :1.2.el6

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## 2.24 commons-codec 1.10



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## 2.27 config-types 2.5.0-b32

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* @(#)bitstring.h 8.1 (Berkeley) 7/19/93
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## 2.31 device-mapper 1.02.149 :10.el7\_6.2

## 2.32 dracut 033

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### Implementation 2.2.4

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## 2.37 fontconfig 2.8.0

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## 2.38 fontpackages-filesystem 1.44 :8.el7

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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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```
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```

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## 2.41 GeolP 1.5.0-13

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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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- 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.
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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>
```

```
This library is free software; you can redistribute it and/or  
modify it under the terms of the GNU Library General Public  
License as published by the Free Software Foundation; either  
version 2 of the License, or (at your option) any later version.
```

```
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```

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

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@center Version 2, June 1991

@c This file is intended to be included in another file.

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@iftex

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@smallexample

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

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

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@end smallexample

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
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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.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

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

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

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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```
@node GNU LGPL
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL
@center Version 2.1, February 1999
```

```
@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin St -- Fifth Floor, Boston, MA 02110-1301, USA
```

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```
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```

```
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```
% texinfo.tex -- TeX macros to handle Texinfo files.  
%  
% Load plain if necessary, i.e., if running under initex.
```

```

\expandafter\ifx\csname fmtname\endcsname\relax\input plain\fi
%
\def\texinfoversion{2007-09-03.05}
%
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%
% Send bug reports to bug-texinfo@gnu.org. Please include including a
% complete document in each bug report with which we can reproduce the
% problem. Patches are, of course, greatly appreciated.
%
% To process a Texinfo manual with TeX, it's most reliable to use the
% texi2dvi shell script that comes with the distribution. For a simple
% manual foo.texi, however, you can get away with this:
% tex foo.texi
% texindex foo.??
% tex foo.texi
% tex foo.texi
% dvips foo.dvi -o # or whatever; this makes foo.ps.
% The extra TeX runs get the cross-reference information correct.
% Sometimes one run after texindex suffices, and sometimes you need more
% than two; texi2dvi does it as many times as necessary.

```

%  
% It is possible to adapt texinfo.tex for other languages, to some  
% extent. You can get the existing language-specific files from the  
% full Texinfo distribution.  
%  
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```

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the Free Software Foundation; either version 2 of the License, or  
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```
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under certain conditions; type `show c' for details.
```

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```
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```

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

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```
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@center Version 2.1, February 1999
```

```
@c This file is intended to be included within another document,
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```

```
@display
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## 2.46 glibc-devel 2.17 :106.el7\_2.8

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## 2.47 glibc-headers 2.17-260

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commit ef7344f09c5ce00eb519ed14598b2a8e39c68387  
Author: Joseph Myers <joseph@codesourcery.com>  
Date: Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in <<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html>> and <<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86\_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

- \* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
- \* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
- (fchflags): Likewise.
- (revoke): Likewise.
- (setlogin): Likewise.
- (sigaltstack): Likewise.
- (wait4): Likewise.
- (sigblock): Remove.

(sigsetmask): Likewise.  
(wait3): Likewise.  
(waitpid): Likewise.  
\* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.  
\* sysdeps/unix/sysv/linux/wait3.c: Update directory of included file.  
\* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...  
\* sysdeps/unix/bsd/Makefile: ... here.  
\* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...  
\* sysdeps/unix/bsd/Versions: ... here.  
\* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...  
\* sysdeps/unix/bsd/bits/sockaddr.h: ... here.  
\* sysdeps/unix/bsd/bsd4.4/cmsg\_nxthdr.c: Move to ...  
\* sysdeps/unix/bsd/cmsg\_nxthdr.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...  
\* sysdeps/unix/bsd/sigblock.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...  
\* sysdeps/unix/bsd/sigsetmask.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...  
\* sysdeps/unix/bsd/sigvec.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...  
\* sysdeps/unix/bsd/tcdrain.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...  
\* sysdeps/unix/bsd/tcgetattr.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...  
\* sysdeps/unix/bsd/tcsetattr.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...  
\* sysdeps/unix/bsd/wait.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...  
\* sysdeps/unix/bsd/wait3.c: ... here.  
\* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...  
\* sysdeps/unix/bsd/waitpid.c: ... here.

```
diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
```

```

similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File name Caller Syscall name # args Strong name Weak names
-
-chflags - chflags 2 chflags
-fchflags - fchflags 2 fchflags
-revoke - revoke 1 revoke
-setlogin - setlogin 2 setlogin
-sigtstack - sigtstack 2 __sigtstack sigtstack
-wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
-# File name Caller Syscall name # args Strong name Weak names
+
+chflags - chflags 2 chflags
+fchflags - fchflags 2 fchflags
+flock - flock 2 __flock flock
+getdents - getdirentries 4 __getdirentries getdirentries

```



```

getdtsz - getdtablesize 0 __getdtablesize getdtablesize
getpagesize - getpagesize 0 __getpagesize getpagesize
killpg - killpg 2 killpg
-sigblock - sigblock 1 __sigblock sigblock
+revoke - revoke 1 revoke
+setlogin - setlogin 2 setlogin
+sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
sigpause - sigpause 1 __sigpause sigpause
-sigsetmask - sigsetmask 1 __sigsetmask sigsetmask
sigstack - sigstack 2 sigstack
sigvec - sigvec 3 __sigvec sigvec
-wait3 - wait3 3 __wait3 wait3
-waitpid - waitpid 3 __waitpid waitpid
+wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1,1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
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```

+ #ifdef GRUB_MACHINE_EFI
+ err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+   &grub_efi_system_table,
+   sizeof (grub_efi_system_table));
+ if (err)
+   return err;
+ #endif
+
+ {
+   struct bsd_tag *tag;
+   tag_buf_len = 0;
diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE 10
#define NETBSD_BTINFO_MODULES 11
#define NETBSD_BTINFO_FRAMEBUF 12
+ #define NETBSD_BTINFO_USERCONFCOMMANDS 13
+ #define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
@@ -146,4 +148,9 @@ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+ struct grub_netbsd_btinfo_efi
+ {
+   void *pa_systbl; /* Physical address of the EFI System Table */
+ };
+
+ #endif
diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21 Stephane Rochoy <sheda>
+
+ * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+ EFI system table.
+
2014-06-21 Stephane Rochoy <sheda>

* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show

```



```
.file "setjmp.S"  
+GRUB_MOD_LICENSE "GPLv3+"  
.text  
  
/*
```

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Version 3, 29 June 2007

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## 2.55 gtk2 2.24.23

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## 2.67 httpcore 4.4.6

### 2.67.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

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```
</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org/">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>
</nav>
</header>
</body>
</html>
```

```

    </ul>
  </li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/getinvolved.html">Overview</a></li>
      <li><a href="http://community.apache.org/">Community Development</a></li>
      <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
      <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
  </li>
  <li><a href="/dyn/closer.cgi">Download</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
  </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-9 col-sm-8 col-xs-12">
      
      <a href="http://apache.org/foundation/contributing.html" title="Support Apache" style="margin-left: 150px;">
        
      </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-12">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];

```

```

    s.parentNode.insertBefore(gcse, s);
  })();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

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

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

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
```

```
<li><a href="/memorials/">Memorials</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```

    <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
</div>

```

```

<div class="col-sm-2">
<h5 class="white">Press</h5>
    <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
    </ul>
</div>

```

```

<div class="col-sm-2">
<h5 class="white">Legal</h5>
    <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
</div>

```

```

<div class="col-sm-1">
</div>

```

```

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
    </div>
</div>
</div>

```

```
</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

## 2.68 incron 0.5.10

### 2.68.1 Available under license :

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

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## 2.72 iso-codes 3.16 :2.e16

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

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```
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Jan Holmberg, <jan@artech.net> :

- o Memory framework
- o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added dont\_track\_primary, nopreempt, preempt\_delay, and misc\_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by -Wshadow.

- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for u\_threshold and l\_threshold support.

Willy Tarreau, <w at 1wt.eu> :

- o Extended VRRP framework to support floating priority.

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```
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```
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## 2.116 kernel 3.10.0 :327.18.2.el7

### 2.116.1 Available under license :

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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- \* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
- \*/

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# 2.117 kernel-headers 3.10.0 :862.11.6.el7

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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 \* along with this program; if not, write to the Free Software  
 \* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*  
 \*/

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```
#ifndef __LICENSE_H
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
return (strcmp(license, "GPL") == 0
|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
}
```

#endif

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QLogic Linux qlge NIC Driver

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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```
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{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```



#endif

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Ralph Metzler <rjkm@metzlerbros.de>  
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for his contributions to the dvb-net driver

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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`<para>`  
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</sect1>

</appendix>

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Alan Cox <alan@lxorguk.ukuu.org.uk>

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>

Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

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single nxt200x frontend driver.

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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\* along with this program; if not, write to the Free Software  
\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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Version 3, 29 June 2007

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```
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Linus Torvalds

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Version 2, June 1991

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
```

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{  
    return (strcmp(license, "GPL") == 0  
        || strcmp(license, "GPL v2") == 0  
        || strcmp(license, "GPL and additional rights") == 0  
        || strcmp(license, "Dual BSD/GPL") == 0  
        || strcmp(license, "Dual MIT/GPL") == 0  
        || strcmp(license, "Dual MPL/GPL") == 0);  
}
```

```
#endif
```

```
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```

```
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```

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(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.



```

* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*      combined, allow nicstar_free_rx_skb to be called to
*      recycle large data buffers
*   2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

```

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Version 3, 29 June 2007

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```
/* nicstar.c v0.22 Jawaid Bazayar (bazayar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
```

- \* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
- \* <http://www.hypermall.com/>
- \* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY
- \* interrupts us (except possibly for removal/insertion of the cable?)
- \* 10/4/97 - began heavy inline documentation of the code. Corrected typos
- \* and spelling mistakes.
- \* 10/5/97 - added code to handle PHY interrupts, disable PHY on
- \* loss of link, and correctly re-enable PHY when link is
- \* re-established. (put back CFG\_PHYIE)
- \*
- \* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- \*
- \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- \*
- \* Linux driver for the IDT77201 NICStAR PCI ATM controller.
- \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- \* see init\_nicstar() for PHY initialization to change this. This driver
- \* expects the Linux ATM stack to support scatter-gather lists
- \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- \*
- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
- \*
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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{
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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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}

#endif
```

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for the initial saa7146 driver and its recent overhaul
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for his work on the initial Linux DVB driver
```

```
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```

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON  
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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
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## 2.120 keyutils 1.5.8 :3.el7

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- 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
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- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c

lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c

lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
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lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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```
# This program is intended to be used by "make check-copyright". It
```

```
# checks for violations of the coding standards related to copyright
```

```
# and license statements in source code comments.
```



```

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != " and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:

```

```

# Strip out whitespace and comments contained within a line.
if not in_comment:
    line = re.sub(r'\s.*?\s*/', '', line)
line = line.strip()

if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').rstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                               code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != "":
    code_seen = True

ln += 1

```

```

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

```

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=====

.. toctree::

:hidden:

copyright.rst

```

.. include:: notice.rst
<!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>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>

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

  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: './',
      VERSION: '1.15',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true
    };
  </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="author" title="About these documents" href="about.html" />
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  <link rel="next" title="Copyright" href="copyright.html" />
  <link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"
          accesskey="C">Contents</a> |
        <a href="mitK5features.html" title="MIT Kerberos features"
          accesskey="P">previous</a> |

```

```

<a href="copyright.html" title="Copyright"
  accesskey="N">next</a> |
<a href="genindex.html" title="General Index"
  accesskey="I">index</a> |
<a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
  </div>
</div>
</div>

<div class="content-wrapper">
<div class="content">
  <div class="document">

<div class="documentwrapper">
  <div class="bodywrapper">
    <div class="body">

<div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
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<p>The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

<tt class="docutils literal"><span class="pre">src/lib/gssapi</span></tt>, including the following files:</p>

<div class="highlight-python"><div class="highlight"><pre><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">generic</span><span class="o">/</span><span class="n">gssapi\_err\_generic</span><span class="o">.</span><span class="n">et</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_accept\_sec\_context</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_acquire\_cred</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_canon\_name</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_compare\_name</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_context\_time</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_delete\_sec\_context</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_dsp\_name</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_dsp\_status</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_delete\_sec\_context</span><span class="o">.</span><span class="n">c</span></pre>





```
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span class="o"></span><span class="n">error_tables</span><span class="o"></span><span class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">slave</span><span class="o"></span><span class="n">kpropd_rpc</span><span class="o">.</span><span class="n">c</span>
<span class="n">slave</span><span class="o"></span><span class="n">kproplog</span><span class="o">.</span><span class="n">c</span>
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```

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```
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      accesskey="P">previous</a> |
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      accesskey="S">Search</a> |
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  <input type="hidden" name="area" value="default" />
</form>
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<div class="clearer"></div>
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</div>
</div>
</div>
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</body>
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</html>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

```
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:

.. parsed-literal::

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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*/
```

# 2.126 libjpeg-turbo 1.2.1 :3.el6\_5

## 2.126.1 Notifications :

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

## 2.126.2 Available under license :

```

*****
**  License
*****

```

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libjpeg-turbo note: This file contains portions of the libjpeg v6b and v8 README files, with additional wordsmithing by The libjpeg-turbo Project. It is included only for reference, as some parts of it may not apply to libjpeg-turbo. Please see README-turbo.txt for information specific to libjpeg-turbo.

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## DOCUMENTATION ROADMAP

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REFERENCES      Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO            Plans for future IJG releases.

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User documentation:

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

Programmer and internal documentation:

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

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

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

## OVERVIEW

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This 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. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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



achieved that goal in every aspect of the software, but we strive for it.

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

## LEGAL ISSUES

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- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

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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, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

## REFERENCES

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We 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 <http://www.ijg.org/files/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 currently available 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).

The original JPEG 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.

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. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/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 <http://www.ijg.org/files/>. 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.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).

The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

#### FILE FORMAT WARS

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The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!  
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

#### TO DO

=====

Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

## 2.127 libjpeg-turbo 1.2.90

## 2.127.1 Available under license :

```
*****  
** License  
*****
```

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG/OSS wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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## LEGAL ISSUES

=====

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- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

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## REFERENCES

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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. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

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## ARCHIVE LOCATIONS

=====  
The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).  
The most recent released version can always be found there in  
directory "files". This particular version will be archived as  
<http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible  
"zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some  
general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>  
and other news.answers archive sites, including the official news.answers  
archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/).  
If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu)  
with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

#### FILE FORMAT WARS

=====  
The ISO JPEG standards committee actually promotes different formats like  
"JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based  
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one of the original reasons for developing this free software was to help  
force convergence on common, interoperable format standards for JPEG files.  
Don't use an incompatible file format!  
(In any case, our decoder will remain capable of reading existing JPEG  
image files indefinitely.)

#### TO DO

=====  
Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

## 2.128 libmpc 1.0.1

### 2.128.1 Available under license :

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Version 3, 29 June 2007

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## 2.143 libXtst 1.2.2 :2.1.e16

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## 2.144 libyaml 0.1.3 :4.el6\_6

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# 2.145 log4j 1.2.14 :6.4.el6

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## 2.147 logback-core 1.1.11

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/\*

\* imap\_gssapi.c is partially derived from sample code in:  
\* GSS-API Programming Guide  
\* Part No: 816-1331-11  
\* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.

\*

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\* hmac.c is derived from:

Network Working Group     H. Krawczyk  
Request for Comments: 2104     IBM  
Category: Informational     M. Bellare  
                                UCSD  
                                R. Canetti  
                                IBM  
                                February 1997

                                HMAC: Keyed-Hashing for Message Authentication

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-----  
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```
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```

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```

```
# ck-copyright-notice can be run from the tools directory
dir=`pwd`
[ -d src ] || [ "`basename "$dir"`" != tools ] || cd ..
```

```
# Note: if paragraphs are reformatted, this may need to be updated.
```

```
lgpl="`sed -n '/version [0-9.]* or any later version/ {
s/.*version //
s/ or.*//
p
q
}` doc/mpfr.texi`"
```

```
# Do not use "find ... | while read file do ... done" because the "do"
# part needs to be run in the current shell, and some shells behave in
# a different way.
srctests=`find src tests -name '*.[ch]`
```

```
err=0
for file in $srctests
do
y=""
case $file in
tests/RRTest.c)
# This file doesn't have a copyright notice, but isn't distributed.
continue ;;
src/mpfr-longlong.h)
# This file (which comes from GMP) has a specific copyright notice.
continue ;;
src/get_patches.c)
file="tools/get_patches.sh" ;;
*/mparam.h)
```

```

y="2005," ;;
esac
grep -q "Copyright $y.* Free Software Foundation" "$file" && \
grep -q "GNU MPFR Library" "$file" && \
grep -q "either version $lgpl of the License" "$file" && continue
echo "Possibly missing or incorrect copyright notice in $file"
err=1
done

exit $err
@c MPFR tweak: Have this in mpfr.texi to help texinfo-mode
@c @node GNU Free Documentation License
@c @appendixsec GNU Free Documentation License

@cindex GNU Free Documentation License
@center Version 1.2, November 2002

@display
Copyright @copyright{ } 2000,2001,2002 Free Software Foundation, Inc.
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```

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```
@end display
```

```
@enumerate 0
@item
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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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```

```
<signature of Ty Coon>, 1 April 1989  
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```
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</p>
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  </p>
</div>
<div class="footer">
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## 2.154 nodejs 0.6.14.1

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```
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```

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- test/gc/node\_modules/weak. Node-weak is a node.js addon that provides garbage collector notifications. Node-weak's license follows:

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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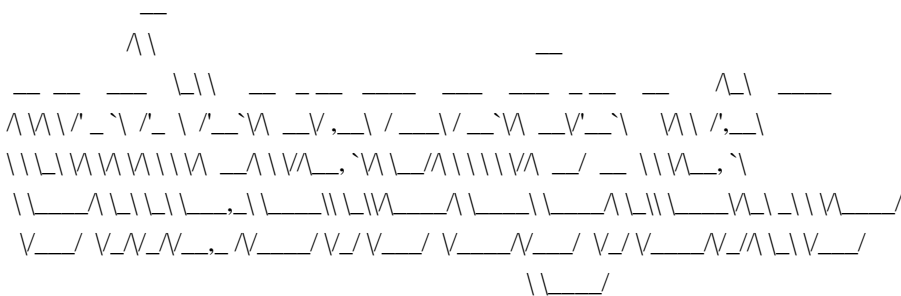
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## 2.159 pax 3.4 :10.1.el6

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## 2.163 python-backports-ssl\_match\_hostname

### 3.4.0.2 :4.el6

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## 2.180 regexp 1.5 :4.4.el6

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## 2.181 rsync 3.0.6

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## 2.182 rsyslog 5.8.10 :10.e16\_6

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## 2.185 setools-libs-python 3.3.7 :4.el6

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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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## 2.219 tomcat-embed-websocket 8.5.11

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8 January 2003

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## 3.2 animal-sniffer-annotations 1.18

## 3.3 animal-sniffer-annotations 1.17

## 3.4 ANTLR 2.7.7

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## 3.18 axis2-adb 1.6.2

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## 3.24 cglib-nodep 2.2.2

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Other developers who have contributed code are:

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Axis  
Bigtop  
Bloodhound  
Buildr  
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Camel  
Cassandra  
Cayenne  
Chemistry  
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Gump  
Hadoop  
Hama

HBase  
Hive  
HttpComponents  
Isis  
Jackrabbit  
James  
jclouds  
Jena  
JMeter  
JSPWiki  
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Kafka  
Karaf  
Lenya  
Libcloud  
Logging  
Lucene  
Lucene.Net  
Lucy  
Mahout  
ManifoldCF  
Marmotta  
Maven  
Mesos  
MINA  
MRUnit  
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Shiro  
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SpamAssassin  
Sqoop  
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Struts  
Subversion  
Synapse  
Syncope  
Tapestry  
Tcl  
Thrift  
Tika  
Tiles  
Tomcat  
TomEE  
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Glossary  
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## 3.47 consul-client 1.3.0

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 */
package org.eclipse.persistence.descriptors.copyping;

import java.io.*;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b></p>: Allows customization of how an object is cloned.
 * An implementer of CopyPolicy can be set on a descriptor to provide
 * special cloning routine for how an object is cloned in a unit of work.
 *
 * By default the InstantiationCopyPolicy is used which creates a new instance of
 * the class to be copied into.
 *
 * The CloneCopyPolicy can also be used that uses a clone method in the object
 * to clone the object. When a clone method is used it avoid the requirement of having to
 * copy over each of the direct attributes.
 *
 * @see org.eclipse.persistence.descriptors.copyping.CloneCopyPolicy
 * @see org.eclipse.persistence.descriptors.copyping.InstantiationCopyPolicy
 */
public interface CopyPolicy extends Cloneable, Serializable {

    /**
     * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
     */
    Object buildClone(Object object, Session session) throws DescriptorException;
}
```

```

/**
 * Return a shallow clone of the object for usage with the unit of work working copy.
 */
Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException;

/**
 * Return an instance with the primary key set from the row, used for building a working copy during a unit of
work transactional read.
 */
Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException;

/**
 * Clone the CopyPolicy.
 */
Object clone();

/**
 * Allow for any initialization or validation required.
 */
void initialize(Session session) throws DescriptorException;

/**
 * Set the descriptor.
 */
void setDescriptor(ClassDescriptor descriptor);

/**
 * Return if this copy policy creates a new instance, vs a clone.
 */
boolean buildsNewInstance();
}
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 *****/
package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.exceptions.*;

```

```

import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;

/**
 * <p><b>Purpose</b></p>: Allows customization of how an object is cloned.
 * This class defines common behavior that allows a subclass to be used
 * and set on a descriptor to provide a special cloning routine for how an object
 * is cloned in a unit of work.
 */
public abstract class AbstractCopyPolicy implements CopyPolicy {
    protected ClassDescriptor descriptor;

    public AbstractCopyPolicy() {
        super();
    }

    public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;

    /**
     * By default use the buildClone.
     */
    public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
        return buildClone(domainObject, session);
    }

    /**
     * By default create a new instance.
     */
    public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
        UnitOfWork uow) throws DescriptorException {
        return this.descriptor.getObjectBuilder().buildNewInstance();
    }

    /**
     * INTERNAL:
     * Clones the CopyPolicy
     */
    public Object clone() {
        try {
            // clones itself
            return super.clone();
        } catch (Exception exception) {
        }
        return null;
    }

    /**
     * Return the descriptor.

```

```

*/
protected ClassDescriptor getDescriptor() {
    return descriptor;
}

/**
 * Do nothing by default.
 */
public void initialize(Session session) throws DescriptorException {
    // Do nothing by default.
}

/**
 * Set the descriptor.
 */
public void setDescriptor(ClassDescriptor descriptor) {
    this.descriptor = descriptor;
}

}
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 *****/
package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.descriptors.PersistenceObject;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b></p>: This is the default copy policy when weaving is used.
 *
 * It creates a copy by creating a shallow clone of the object using the weaved _persistence_shallow_clone() method.
 */
public class PersistenceEntityCopyPolicy extends AbstractCopyPolicy {
    public PersistenceEntityCopyPolicy() {
        super();
    }
}

```

```

public Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException {
    return ((PersistenceObject)object)._persistence_shallow_clone();
}

public Object buildClone(Object object, Session session) throws DescriptorException {
    return ((PersistenceObject)object)._persistence_shallow_clone();
}

public boolean buildsNewInstance() {
    return false;
}

public String toString() {
    return Helper.getShortClassName(this) + "()";
}
}

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*****/
package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b></p>: This is the default copy policy.
 *
 * It creates a copy by creating a new instance of the object and then using the
 * mappings specified for the object to populate the object.
 */
public class InstantiationCopyPolicy extends AbstractCopyPolicy {
    public InstantiationCopyPolicy() {
        super();
    }
}

public Object buildClone(Object domainObject, Session session) throws DescriptorException {
    return getDescriptor().getObjectBuilder().buildNewInstance();
}

```

```

    }

    public boolean buildsNewInstance() {
        return true;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}

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 *****/
package org.eclipse.persistence.descriptors.copyping;

import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.internal.sessions.AbstractRecord;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;
import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

/**
 * <p><b>Purpose</b></p>: Allows a clone of an object to be created with a method that returns
 * the cloned object.
 *
 * It is possible to define methods for two types of clones
 *
 * 1. methodName can be set to define the method EclipseLink uses to clone objects for it's
 * own internal use. The objects created by this method will not be visible to the user, and
 * instead used as a basis for comparison when a DeferredChangeDetectionPolicy used. This method will
 * also be in place of the workingCopyMethod if it is not provided
 *
 */

```

```

* 2. workingCopyMethod this method is used to create the clone that is returned to the user when an
* Object is registered in a UnitOfWork
*/
public class CloneCopyPolicy extends AbstractCopyPolicy {

    /** Allow for clone method to be specified. */
    protected String methodName;
    protected String workingCopyMethodName;
    protected transient Method method;
    protected transient Method workingCopyMethod;

    public CloneCopyPolicy() {
        super();
    }

    /**
     * Clone through calling the clone method.
     */
    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() == null) {
            return getDescriptor().getObjectBuilder().buildNewInstance();
        }
        try {
            if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
                try {
                    return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject,
new Object[0]));
                } catch (PrivilegedActionException exception) {
                    Exception throwableException = exception.getException();
                    if (throwableException instanceof IllegalAccessException) {
                        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                    } else {
                        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                    }
                }
            } else {
                return PrivilegedAccessHelper.invokeMethod(this.getMethod(), domainObject, new Object[0]);
            }
        } catch (IllegalAccessException exception) {
            throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
        } catch (InvocationTargetException exception) {
            throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
        }
    }
}

```



```

    }
}

/**
 * Clone through the workingCopyClone method, or if not specified the clone method.
 */
public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
    if (this.getWorkingCopyMethodName() == null) {
        //not implemented to perform special operations.
        return this.buildClone(domainObject, session);
    }

    try {
        if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
            try {
                return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getWorkingCopyMethod(),
domainObject, new Object[0]));
            } catch (PrivilegedActionException exception) {
                Exception throwableException = exception.getException();
                if (throwableException instanceof IllegalAccessException) {
                    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                } else {
                    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                }
            }
        } else {
            return PrivilegedAccessHelper.invokeMethod(this.getWorkingCopyMethod(), domainObject, new
Object[0]);
        }

        } catch (IllegalAccessException exception) {
            throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
        } catch (InvocationTargetException exception) {
            throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
        }
    }

}

/**
 * Create a new instance, unless a workingCopyClone method is specified, then build a new instance and clone it.
 */
@Override
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException {
    // For now must preserve CMP code which builds heavy clones with a context.

```

```

// Also preserve for clients who use the copy policy.
ObjectBuilder builder = getDescriptor().getObjectBuilder();
if (getWorkingCopyMethodName() != null) {
    Object original = builder.buildNewInstance();
    builder.buildAttributesIntoShallowObject(original, (AbstractRecord)row, query);
    return buildWorkingCopyClone(original, query.getSession());
} else {
    return builder.buildNewInstance();
}
}

/**
 * Return the clone method.
 */
protected Method getMethod() {
    return method;
}

/**
 * Return the clone method name.
 */
public String getMethodName() {
    return methodName;
}

/**
 * Return the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected Method getWorkingCopyMethod() {
    return workingCopyMethod;
}

/**
 * Return the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */
public String getWorkingCopyMethodName() {
    return workingCopyMethodName;
}

/**
 * Validate and build the methods.
 */
public void initialize(Session session) throws DescriptorException {
    final Class javaClass = this.getDescriptor().getJavaClass();
    try {
        // Must allow for null clone method for 9.0.4 deployment XML.

```

```

        if (this.getMethodName() != null) {
            this.setMethod(Helper.getDeclaredMethod(javaClass, this.getMethodName(), new Class[0]));
        }
    } catch (NoSuchMethodException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    } catch (SecurityException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    }
    if (this.getWorkingCopyMethodName() != null) {
        try {
            this.setWorkingCopyMethod(Helper.getDeclaredMethod(javaClass, this.getWorkingCopyMethodName(), new Class[0]));
        } catch (NoSuchMethodException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        } catch (SecurityException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        }
    }
}

/**
 * Set the clone method.
 */
protected void setMethod(Method method) {
    this.method = method;
}

/**
 * Set the clone method name.
 */
public void setMethodName(String methodName) {
    this.methodName = methodName;
}

/**
 * Set the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected void setWorkingCopyMethod(Method method) {
    this.workingCopyMethod = method;
}

/**
 * Set the workingCopyClone method name.

```

```

    * This is used to clone within a unit of work.
    */
    public void setWorkingCopyMethodName(String methodName) {
        this.workingCopyMethodName = methodName;
    }

    /**
     * Return false as a shallow clone is returned, not a new instance.
     */
    public boolean buildsNewInstance() {
        return getMethodName() == null;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "(" + this.getMethodName() + ")";
    }
}

```

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## 3.54 error\_prone\_annotations 2.2.0

## 3.55 error\_prone\_annotations 2.3.2

## 3.56 Expression Language 2.2

### Implementation 2.2.4

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## 3.59 flyway-core 3.1

## 3.60 flyway-core 4.1.2

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Version 2.1, February 1999

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## 3.69 Hibernate JPA API 2.1



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## 3.88 httpcore 4.4.10

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## 3.89 j2objc-annotations 1.1

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

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<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
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```
</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org/">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>
</nav>
</header>
</body>
</html>
```

```

    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
      </ul>
    </li>
  </ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
      
    </div>
    <div class="col-md-3 col-sm-3 col-xs-6">
      <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
        
      </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-6">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;

```

```

var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

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

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

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
```

```
<li><a href="/memorials/">Memorials</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
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Foundation.</p>
  </div>
</div>
```



```
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

## 3.90 j2objc-annotations 1.3

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\* file name: UBiDiProps.java

\* encoding: US-ASCII

\* tab size: 8 (not used)

\* indentation:4

\*

\* created on: 2005jan16

\* created by: Markus W. Scherer

\*

\* Low-level Unicode bidi/shaping properties access.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the `Replaceable` API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the **bold** font" has range (4, 8) replaced with "strong", then it becomes "the **strong** font".

`Replaceable` specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

`Replaceable` also includes API to access characters in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`.

For a subclass to support metadata, typical behavior of `replace()` is the following:

- 

- Set the metadata of the new text to the metadata of the first character replaced

- If no characters are replaced, use the metadata of the previous character

- If there is no previous character (i.e. start == 0), use the following character

- If there is no following character (i.e. the replaceable was empty), use default metadata

- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

- 



If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

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`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

**Note:** This class does not support attributes and is not intended for general use. Most clients will need to implement `Replaceable` in their text representation class.

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@see Replaceable  
@author Alan Liu  
@stable ICU 2.0

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```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
```

```
* Legacy security code; do not use.
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable {  
    public Permission(String name) { }  
  
    public final String getName() { return null; }  
  
    public void checkGuard(Object obj) throws SecurityException { }  
  
    public PermissionCollection newPermissionCollection() {  
        return new AllPermissionCollection();  
    }  
  
    public abstract String getActions();  
  
    public abstract boolean implies(Permission permission);  
}
```



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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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## 3.114 jackson-jaxrs-json-provider 2.8.11

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## 3.120 jakarta.el-api 3.0.2

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## 3.127 javax-websocket-client-impl

### 9.4.12.v20180830

#### 3.127.1 Available under license :

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Full name: Jeanfrancois Arcand

E-Mail: [jfarcand@apache.org](mailto:jfarcand@apache.org)

Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Date: /28/08/06

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Version: GnuPG v1.0.7 (GNU/Linux)

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E-Mail: thomas.becker00@googlemail.com

Mailing Address:

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Version: GnuPG v1.4.10 (GNU/Linux)

```
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```

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E-Mail: tim@adjective.org

Mailing Address: 7/9-11 Cook St, Sutherland, NSW 2232, Australia

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Version: GnuPG v1.4.1 (Darwin)

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E-Mail: gregw@eclipse.com

Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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LBDVaad1bJ1v1EHY901kPcg=  
=6rqm

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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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=piHm

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Full name: Gordon King  
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Signature:

Name: Gordon King

Positions: Chief Operational Officer

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Name	Date added
Simone Bordet	12 September 2006

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv  
8sfMxEDZquIqhVbfZU2c76U=  
=8WW7

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E-Mail: [ngonzalez@exist.com](mailto:ngonzalez@exist.com)

Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji  
6etDJ6AUj0jTuS159hUsWMQ=  
=HmqH

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E-Mail: [jmccconnell@apache.org](mailto:jmccconnell@apache.org)

Mailing Address: 7717 S 167th Street, Omaha, Ne. 68136

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Date: December 19 2007

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Version: GnuPG v1.4.6 (GNU/Linux)

iD8DBQFHacMO+jg6q+ULyBMRAky4AJ9CdNKsmg8n2aFcpQAvcEPXxEjIJACgrvjM  
C/W/GuQFfCJJykkL2jd9/Ag=  
=ufUh  
-----END PGP SIGNATURE-----

## 3.128 javax-websocket-server-impl

### 9.4.12.v20180830

#### 3.128.1 Available under license :

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Version: GnuPG v1.4.10 (GNU/Linux)

```
iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
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0M12guFkNLDteQp9h2p3Zu9JU3K0y4m84IDWq72HRmh1nRyD6lzZFhDGZ/D+69fF
tgYG0FwEit00MAq/1RbsXHLpBOY+Jyh/Xy+QRnQTcAQ+tAgOlxds3w+JSs2sGdes
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=gAqN
```

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Full name: James Strachan

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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: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

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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```
<html xmlns:o="urn:schemas-microsoft-com:office:office" xmlns:w="urn:schemas-microsoft-com:office:word"
xmlns="http://www.w3.org/TR/REC-html40"><head>
```

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<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
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<meta name="Generator" content="Microsoft Word 9">
<meta name="Originator" content="Microsoft Word 9">
<link rel="File-List"
```

```

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mso-font-charset:0;
mso-generic-font-family:swiss;
mso-font-pitch:variable;
mso-font-signature:553679495 -2147483648 8 0 66047 0;}
/* Style Definitions */
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margin-bottom:.0001pt;
mso-pagination:widow-orphan;
font-size:12.0pt;
font-family:"Times New Roman";
mso-fareast-font-family:"Times New Roman";}
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{margin-right:0in;
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mso-margin-bottom-alt:auto;
margin-left:0in;
mso-pagination:widow-orphan;
font-size:12.0pt;
font-family:"Times New Roman";

```

```

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p.BalloonText, li.BalloonText, div.BalloonText
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margin-bottom:.0001pt;
mso-pagination:widow-orphan;
font-size:8.0pt;
font-family:Tahoma;
mso-fareast-font-family:"Times New Roman";}
@page Section1
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mso-footer-margin:.5in;
mso-paper-source:0;}
div.Section1
{page:Section1;}
-->
</style>
</head><body style="" lang="EN-US">

<div class="Section1">

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<p class="MsoNormal" style="margin-left: 0.5in;"><span style="font-size: 10pt;">where
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LBDVaad1bJ1v1EHY901kPcg=

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E-Mail: `jmccconnell@apache.org`  
Mailing Address: 7717 S 167th Street, Omaha, Ne. 68136

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C/W/GuQFfCJJykkL2jd9/Ag=  
=ufUh

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RUIoI0BYmYpaETSqxt2oLFU=  
=Tr57

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Version: GnuPG v1.0.7 (GNU/Linux)

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Zokttk0bTHfwaa5TtxQbScw=

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## 3.129 javax.annotation API 1.2

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## 3.162 jersey-json-1.17.1.jar 1.17.1

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## 3.171 jersey-servlet-1.17.1.jar 1.17.1

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## 3.176 joda-time 2.9.9

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## 3.186 lombok 1.16.22

## 3.187 mapstruct 1.1.0.Final

## 3.188 mchange-commons-java library 0.2.3.4

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 \*/

```
package javax.servlet.jsp.tagext;
```

```
import java.io.Reader;
import java.io.Writer;
import java.io.IOException;
import javax.servlet.jsp.*;
```

```
/**
 * A JspWriter subclass that can be used to process body evaluations
 * so they can re-extracted later on.
 */
```

```
public abstract class BodyContent extends JspWriter {
```

```
    /**
     * Protected constructor.
     *
     * Unbounded buffer, no autoflushing.
     */
```

```

    protected BodyContent(JspWriter e) {
    super(UNBOUNDED_BUFFER , false);
    this.enclosingWriter = e;
    }

    /**
     * Redefine flush().
     * It is not valid to flush.
     */

    public void flush() throws IOException {
    throw new IOException("Illegal to flush within a custom tag");
    }

    /**
     * Clear the body.
     */

    public void clearBody() {
    try {
        this.clear();
    } catch (IOException ex) {
        // TODO -- clean this one up.
        throw new Error("internal error!");
    }
    }

    /**
     * Return the value of this BodyContent as a Reader.
     * Note: this is after evaluation!! There are no scriptlets,
     * etc in this stream.
     *
     * @returns the value of this BodyContent as a Reader
     */
    public abstract Reader getReader();

    /**
     * Return the value of the BodyContent as a String.
     * Note: this is after evaluation!! There are no scriptlets,
     * etc in this stream.
     *
     * @returns the value of the BodyContent as a String
     */
    public abstract String getString();

    /**
     * Write the contents of this BodyContent into a Writer.

```

```

* Subclasses are likely to do interesting things with the
* implementation so some things are extra efficient.
*
* @param out The writer into which to place the contents of
* this body evaluation
*/

public abstract void writeOut(Writer out) throws IOException;

/**
 * Get the enclosing JspWriter
 *
 * @returns the enclosing JspWriter passed at construction time
 */

public JspWriter getEnclosingWriter() {
return enclosingWriter;
}

/**
 * private fields
 */

private JspWriter enclosingWriter;
}

```

## 3.203 slf4j 1.7.6

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## 3.236 swagger-models 1.5.0

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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
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## 3.240 tomcat-embed-jasper 8.0.39

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## 3.244 tribes 6.0.16

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## 3.247 velocity 1.7

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## 3.255 woden-impl-dom 1.0M9

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## 4.1 accessors-smart 1.1

## 4.2 animal-sniffer-annotations 1.17

## 4.3 ANTLR 2.7.7

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## 4.6 asm 5.0.3

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## 4.8 aspectjrt 1.8.13

## 4.9 aspectjweaver 1.9.1

## 4.10 bcpkix-jdk15on 1.55

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## 4.11 bcprov-jdk15on 1.55

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```

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

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

```

<head>
<title>bouncycastle.org</title>
<meta http-equiv="Content-type" content="text/html; charset=iso-8859-1" />
<meta http-equiv="Content-Language" content="en-aus" />
<meta name="description" content="Home of the Legion of the Bouncy Castle and their Java cryptography
resources and open source code" />
<meta name="keywords" content="Legion of the Bouncy Castle, Cryptography, JCE, Java Cryptography Extension,
Cryptography Source Code, ASN.1, X.509, Open Source" />
<link rel="shortcut icon" href="favicon.ico" type="image/x-icon" />
<link rel="stylesheet" type="text/css" href="bouncycastle.css" />
</head>
<body>

<div id="header">
<div id="title">
<h1>The Legion of the Bouncy Castle</h1>
</div>
</div>

<div id="container">

<div id="content">

<div id="navigation">
<ul>
<li><a href="index.html" class="nav">entry</a></li>
<li><a href="wiki" class="nav">wiki</a></li>
<li><a href="jira" class="nav">issue tracker</a></li>
<li><a href="https://www.bouncycastle.org/donate/index.cgi" class="nav">donate</a></li>
<li><a href="mailing_lists.html" class="nav">mailing lists</a></li>
<li><a href="latest_releases.html" class="nav">latest releases</a></li>
<li><a href="documentation.html" class="nav">documentation</a></li>
<li><a href="resources.html" class="nav">resources</a></li>
<li><a href="mirrors.html" class="nav">mirroring</a></li>
<li><div style="color:#0000FF;font-weight:bold;">legal and licencing</div></li>
<li><a href="contributors.html" class="nav">contributors</a></li>
<li><a href="csharp" class="nav">c#</a></li>
</ul>
<div class="clearing">&nbsp;</div>
</div>

<div id="body">

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</body>

</html>

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

<head>
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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
```

```
}
</style>

</head>

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</body>

</html>

```

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<html lang="en">
<head>
  <title>Apache License, Version 2.0</title>

  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  <meta property="og:image" content="http://www.apache.org/images/asf_logo.gif" />

  <link rel="stylesheet" type="text/css" media="screen" href="/css/style.css">
  <link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">

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

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  on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and limitations under the License. -->
</head>

<body>
  <div id="page" class="container_16">
    <div id="header" class="grid_8">
      
      <h1>The Apache Software Foundation</h1>
      <h2>Apache License, Version 2.0</h2>
    </div>
    <div id="nav" class="grid_8">
      <ul>
        <!-- <li><a href="/" title="Welcome!">Home</a></li> -->
        <li><a href="/foundation/" title="The Foundation">Foundation</a></li>
        <li><a href="http://projects.apache.org" title="The Projects">Projects</a></li>
        <li><a href="http://people.apache.org" title="The People">People</a></li>
        <li><a href="/foundation/getinvolved.html" title="Get Involved">Get Involved</a></li>
        <li><a href="/dyn/closer.cgi" title="Download">Download</a></li>
        <li><a href="/foundation/sponsorship.html" title="Support Apache">Support Apache</a></li>
      </ul>
      <p><a href="/">Home</a>&nbsp;&raquo;&nbsp;<a href="/licenses/">Licenses</a></p>
      <form name="search" id="search" action="http://www.google.com/search" method="get">
        <input value="apache.org" name="sitesearch" type="hidden"/>
        <input type="text" name="q" id="query">
        <input type="submit" id="submit" value="Search">
    </div>
  </div>

```

</form>  
</div>  
<div class="clear"></div>  
<div id="content" class="grid\_16"><div class="section-content"><p>Apache License<br></br>Version 2.0,  
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```
</pre></div></div></div>
```

```
<div class="clear"></div>
```

```
</div>
```

```
<div id="footer" class="container_16">
```

```
<div class="links grid_16">
```

```
<div class="grid_3">
```

```
<h4>Projects</h4>
```

```
<ul>
```

```
<li><a href="http://httpd.apache.org/" title="Apache Web Server (httpd)">HTTP Server</a></li>
```

```
<li><a href="http://abdera.apache.org/" title="Atom Publishing Protocol Implementation">Abdera</a></li>
```

```
<li><a href="http://accumulo.apache.org/" title="Sorted, distributed key/value store">Accumulo</a></li>
```

```
<li><a href="http://ace.apache.org/" title="Centralized life cycle management and deployment of OSGi based and related modular software artifacts for distribution.">ACE</a></li>
```

<li><a href="http://activemq.apache.org/" title="Distributed Messaging System">ActiveMQ</a></li>  
<li><a href="http://airavata.apache.org/" title="Workflow and Computational Job Management  
Middleware">Airavata</a></li>  
<li><a href="http://allura.apache.org/" title="Forge software for hosting software projects">Allura</a></li>  
<li><a href="http://ambari.apache.org/" title="Hadoop cluster management">Ambari</a></li>  
<li><a href="http://ant.apache.org/" title="Java-based build tool">Ant</a></li>  
<li><a href="http://any23.apache.org/" title="Anything to Triples">Any23</a></li>  
<li><a href="http://apr.apache.org/" title="Apache Portable Runtime libraries">APR</a></li>  
<li><a href="http://archiva.apache.org/" title="Build Artifact Repository Manager">Archiva</a></li>  
<li><a href="http://aries.apache.org/" title="Enterprise OSGi application programming model">Aries</a></li>  
<li><a href="http://avro.apache.org/" title="A Serialization System">Avro</a></li>  
<li><a href="http://axis.apache.org/" title="Java SOAP Engine">Axis</a></li>  
<li><a href="http://bigtop.apache.org/" title="Apache Hadoop ecosystem integration and distribution  
project">Bigtop</a></li>  
<li><a href="http://bloodhound.apache.org/" title="Issue tracking, wiki and repository  
browser">Bloodhound</a></li>  
<li><a href="http://buildr.apache.org/" title="Simple and intuitive build system for Java  
applications">Buildr</a></li>  
<li><a href="http://bval.apache.org/" title="Apache BVal: JSR-303 Bean Validation Implementation and  
Extensions">BVal</a></li>  
<li><a href="http://camel.apache.org/" title="Spring based Integration Framework which implements the Enterprise  
Integration Patterns">Camel</a></li>  
<li><a href="http://cassandra.apache.org/" title="Highly scalable second-generation distributed  
database">Cassandra</a></li>  
<li><a href="http://cayenne.apache.org/" title="User-friendly Java ORM with Tools">Cayenne</a></li>  
<li><a href="http://chemistry.apache.org/" title="CMIS (Content Management Interoperability Services) Clients and  
Servers">Chemistry</a></li>  
<li><a href="http://chukwa.apache.org/" title="Open source data collection system for monitoring large distributed  
systems.">Chukwa</a></li>  
<li><a href="http://clerezza.apache.org/" title="Semantically linked data for OSGi">Clerezza</a></li>  
<li><a href="http://cloudstack.apache.org/" title="Infrastructure as a Service solution">CloudStack</a></li>  
<li><a href="http://cocoon.apache.org/" title="Web development framework: separation of concerns, component-  
based">Cocoon</a></li>  
<li><a href="http://commons.apache.org/" title="Reusable Java components">Commons</a></li>  
<li><a href="http://continuum.apache.org/" title="Continuous Integration and Build Server">Continuum</a></li>  
<li><a href="http://cordova.apache.org/" title="Platform for building native mobile applications using HTML, CSS  
and JavaScript">Cordova</a></li>  
<li><a href="http://couchdb.apache.org/" title="RESTful document database">CouchDB</a></li>  
<li><a href="http://creadur.apache.org/" title="Comprehension and auditing of software  
distributions">Creadur</a></li>  
<li><a href="http://crunch.apache.org/" title="Simple and Efficient MapReduce Pipelines">Crunch</a></li>  
<li><a href="http://ctakes.apache.org/" title="Natural language processing (NLP) tool for information extraction  
from electronic medical record clinical free-text">cTAKES</a></li>  
<li><a href="http://curator.apache.org/" title="Java libraries that make using Apache ZooKeeper  
easier">Curator</a></li>  
<li><a href="http://cxf.apache.org/" title="Service Framework">CXF</a></li>  
<li><a href="http://db.apache.org/" title="Database access">DB</a></li>  
<li><a href="http://deltacloud.apache.org/" title="RESTful cloud management interface">Deltacloud</a></li>

- <li><a href="http://deltaspike.apache.org/" title="Portable CDI extensions that provide useful features for Java application developers">DeltaSpike</a></li>
- <li><a href="http://directmemory.apache.org/" title="An off-heap cache for the Java Virtual Machine">DirectMemory</a></li>
- <li><a href="http://directory.apache.org/" title="Apache Directory Server">Directory</a></li>
- <li><a href="http://empire-db.apache.org/" title="Relational Data Persistence">Empire-db</a></li>
- <li><a href="http://etch.apache.org/" title="Cross-platform, language- and transport-independent RPC-like messaging framework">Etch</a></li>
- <li><a href="http://felix.apache.org/" title="OSGi Framework and components.">Felix</a></li>
- <li><a href="http://flex.apache.org/" title="Application framework for expressive web applications that deploy to all major browsers, desktops and devices.">Flex</a></li>
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- <li><a href="http://forrest.apache.org/" title="Aggregated multi-channel documentation, separation of concerns">Forrest</a></li>
- <li><a href="http://geronimo.apache.org/" title="Java2, Enterprise Edition (J2EE) container">Geronimo</a></li>
- <li><a href="http://giraph.apache.org/" title="Iterative graph processing system built for high scalability">Giraph</a></li>
- <li><a href="http://gora.apache.org/" title="ORM framework for column stores such as Apache HBase and Apache Cassandra with a specific focus on Hadoop">Gora</a></li>
- <li><a href="http://gump.apache.org/" title="Continuous integration of open source projects">Gump</a></li>
- <li><a href="http://hadoop.apache.org/" title="Distributed computing platform">Hadoop</a></li>
- <li><a href="http://hama.apache.org/" title="a Bulk Synchronous Parallel computing framework on top of Hadoop">Hama</a></li>
- <li><a href="http://hbase.apache.org/" title="Hadoop Database">HBase</a></li>
- <li><a href="http://helix.apache.org/" title="A cluster management framework for partitioned and replicated distributed resources">Helix</a></li>
- <li><a href="http://hive.apache.org/" title="Data warehouse infrastructure using the Hadoop Database">Hive</a></li>
- <li><a href="http://hc.apache.org/" title="Java toolset of low level HTTP components">HttpComponents</a></li>
- <li><a href="http://isis.apache.org/" title="Framework for rapidly developing domain-driven apps in Java">Isis</a></li>
- <li><a href="http://jackrabbit.apache.org/" title="Content Repository for Java">Jackrabbit</a></li>
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- <li><a href="http://jena.apache.org/" title="Java framework for building Semantic Web applications">Jena</a></li>
- <li><a href="http://jmeter.apache.org/" title="Java performance and functional testing">JMeter</a></li>
- <li><a href="http://jspwiki.apache.org/" title="Leading open source WikiWiki engine, feature-rich and built around standard J2EE components (Java, servlets, JSP). ">JSPWiki</a></li>
- <li><a href="http://juddi.apache.org/" title="Java implementation of the Universal Description, Discovery, and Integration specification">jUDDI</a></li>
- <li><a href="http://kafka.apache.org/" title="Distributed publish-subscribe messaging system">Kafka</a></li>
- <li><a href="http://karaf.apache.org/" title="Server-side OSGi distribution">Karaf</a></li>
- <li><a href="http://knnox.apache.org/" title="Simplify and normalize the deployment and implementation of secure Hadoop clusters">Knox</a></li>
- <li><a href="http://lenya.apache.org/" title="Content Management System">Lenya</a></li>
- <li><a href="http://libcloud.apache.org/" title="Unified interface to the cloud">Libcloud</a></li>

- <li><a href="http://logging.apache.org/" title="Cross-language logging services">Logging</a></li>
- <li><a href="http://lucene.apache.org/" title="Search engine library">Lucene</a></li>
- <li><a href="http://lucenenet.apache.org/" title="Search engine library targeted at .NET runtime users.">Lucene.Net</a></li>
- <li><a href="http://lucy.apache.org/" title="Search engine library for dynamic languages">Lucy</a></li>
- <li><a href="http://mahout.apache.org/" title="Scalable machine learning library">Mahout</a></li>
- <li><a href="http://manifoldcf.apache.org/" title="Framework for connecting source content repositories to target repositories or indexes.">ManifoldCF</a></li>
- <li><a href="http://marmotta.apache.org/" title="An Open Platform for Linked Data">Marmotta</a></li>
- <li><a href="http://maven.apache.org/" title="Java project management and comprehension tools">Maven</a></li>
- <li><a href="http://mesos.apache.org/" title="a cluster manager that provides efficient resource isolation and sharing across distributed applications">Mesos</a></li>
- <li><a href="http://mina.apache.org/" title="Multipurpose Infrastructure for Network Application">MINA</a></li>
- <li><a href="http://mrunit.apache.org/" title="Java library that helps developers unit test Apache Hadoop map reduce jobs">MRUnit</a></li>
- <li><a href="http://myfaces.apache.org/" title="JavaServer(tm) Faces implementation and components">MyFaces</a></li>
- <li><a href="http://nutch.apache.org/" title="Open Source Web Search Software">Nutch</a></li>
- <li><a href="http://ode.apache.org/" title="Orchestration Director Engine: Business Process Management (BPM), Process Orchestration and Workflow through service composition.">ODE</a></li>
- <li><a href="http://ofbiz.apache.org/" title="Open for Business: enterprise automation software">OFBiz</a></li>
- <li><a href="http://olingo.apache.org/" title="OASIS OData protocol libraries">Olingo</a></li>
- <li><a href="http://oltu.apache.org/" title="OAuth protocol implementation in Java">Oltu</a></li>
- <li><a href="http://onami.apache.org/" title="Development and maintenance of a set of Google Guice extensions">Onami</a></li>
- <li><a href="http://oodt.apache.org/" title="Object Oriented Data Technology (middleware metadata)">OODT</a></li>
- <li><a href="http://oozie.apache.org/" title="A workflow scheduler system to manage Apache Hadoop jobs.">Oozie</a></li>
- <li><a href="http://climate.apache.org/" title="Climate model evaluation">Open Climate Workbench</a></li>
- <li><a href="http://openjpa.apache.org/" title="OpenJPA: Object Relational Mapping for Java">OpenJPA</a></li>
- <li><a href="http://openmeetings.apache.org/" title="OpenMeetings: Web-Conferencing and real-time collaboration">OpenMeetings</a></li>
- <li><a href="http://opennlp.apache.org/" title="Machine learning based toolkit for the processing of natural language text">OpenNLP</a></li>
- <li><a href="http://openoffice.apache.org/" title="An open-source, office-document productivity suite">OpenOffice</a></li>
- <li><a href="http://openwebbeans.apache.org/" title="OpenWebBeans: JSR-299 Context and Dependency Injection for Java EE Platform Implementation">OpenWebBeans</a></li>
- <li><a href="http://pdfbox.apache.org/" title="Java library for working with PDF documents">PDFBox</a></li>
- <li><a href="http://perl.apache.org/" title="Dynamic websites using Perl">Perl</a></li>
- <li><a href="http://pig.apache.org/" title="Platform for analyzing large data sets">Pig</a></li>
- <li><a href="http://pivot.apache.org/" title="Rich Internet applications in Java">Pivot</a></li>
- <li><a href="http://poi.apache.org/" title="Java API for OLE 2 Compound and OOXML Documents">POI</a></li>
- <li><a href="http://portals.apache.org/" title="Portal technology">Portals</a></li>
- <li><a href="http://qpuid.apache.org/" title="Multiple language implementation of the latest Advanced Message Queuing Protocol (AMQP)">Qpid</a></li>
- <li><a href="http://rave.apache.org/" title="Web and social mashup engine">Rave</a></li>

- <li><a href="http://river.apache.org/" title="Jini service oriented architecture">River</a></li>
- <li><a href="http://roller.apache.org/" title="Java blog server">Roller</a></li>
- <li><a href="http://santuario.apache.org/" title="XML Security in Java and C++">Santuario</a></li>
- <li><a href="http://servicemix.apache.org/" title="Enterprise Service Bus">ServiceMix</a></li>
- <li><a href="http://shindig.apache.org/" title="Opensocial Reference Implementation">Shindig</a></li>
- <li><a href="http://shiro.apache.org/" title="Powerful and easy-to-use application security framework">Shiro</a></li>
- <li><a href="http://sis.apache.org/" title="Spatial Information System">SIS</a></li>
- <li><a href="http://sling.apache.org/" title="Web Framework for JCR Content Repositories">Sling</a></li>
- <li><a href="http://spamassassin.apache.org/" title="Mail filter to identify spam">SpamAssassin</a></li>
- <li><a href="http://spark.apache.org/" title="Fast and general engine for large-scale data processing">Spark</a></li>
- <li><a href="http://sqoop.apache.org/" title="Bulk Data Transfer for Hadoop and Structured Datastores">Sqoop</a></li>
- <li><a href="http://stanbol.apache.org/" title="Reusable components for semantic content management">Stanbol</a></li>
- <li><a href="http://steve.apache.org/" title="Apache's Python based single transferable vote software system">STeVe</a></li>
- <li><a href="http://storm.apache.org/" title="Distributed, real-time computation system">Storm</a></li>
- <li><a href="http://struts.apache.org/" title="Model 2 framework for building Java web applications">Struts</a></li>
- <li><a href="http://subversion.apache.org/" title="Version Control">Subversion</a></li>
- <li><a href="http://synapse.apache.org/" title="Enterprise Service Bus and Mediation Framework">Synapse</a></li>
- <li><a href="http://syncope.apache.org/" title="Managing digital identities in enterprise environments">Syncope</a></li>
- <li><a href="http://tajo.apache.org/" title="Big data warehouse system on Hadoop">Tajo</a></li>
- <li><a href="http://tapestry.apache.org/" title="Component-based Java Web Application Framework">Tapestry</a></li>
- <li><a href="http://tcl.apache.org/" title="Dynamic websites using TCL">Tcl</a></li>
- <li><a href="http://tez.apache.org/" title="High-performance and scalable distributed data processing framework">Tez</a></li>
- <li><a href="http://thrift.apache.org/" title="Framework for scalable cross-language services development">Thrift</a></li>
- <li><a href="http://tika.apache.org" title="Content Analysis and Detection Toolkit">Tika</a></li>
- <li><a href="http://tiles.apache.org/" title="A templating framework for web application user interfaces">Tiles</a></li>
- <li><a href="http://tomcat.apache.org/" title="A Java Servlet and JSP Container">Tomcat</a></li>
- <li><a href="http://tomee.apache.org/" title="Java EE Web Profile built on Tomcat">TomEE</a></li>
- <li><a href="http://trafficserver.apache.org/" title="A fast, scalable and extensible HTTP/1.1 compliant caching proxy server">Traffic Server</a></li>
- <li><a href="http://turbine.apache.org/" title="A Java Servlet Web Application Framework and associated component library">Turbine</a></li>
- <li><a href="http://tuscanys.apache.org/" title="An SCA based Service Composition Framework">Tuscany</a></li>
- <li><a href="http://uima.apache.org/" title="Framework and annotators for unstructured information analysis">UIMA</a></li>
- <li><a href="http://vcl.apache.org/" title="Virtual Computing Lab">VCL</a></li>
- <li><a href="http://velocity.apache.org/" title="A Java Templating Engine">Velocity</a></li>

- [VXQuery](http://vxquery.apache.org/ "A parallel XQuery processor")
- [Web Services](http://ws.apache.org/ "Projects related to Web Services")
- [Whirr](http://whirr.apache.org/ "Libraries for running Cloud Services")
- [Wicket](http://wicket.apache.org/ "Component-based Java Web Application Framework.")
- [Wink](http://wink.apache.org/ "RESTful Web services Framework")
- [Wookie](http://wookie.apache.org/ "Widgets for Applications")
- [Xalan](http://xalan.apache.org/ "XSLT processors in Java and C++")
- [Xerces](http://xerces.apache.org/ "XML parsers in Java, C++ and Perl")
- [XMLBeans](http://xmlbeans.apache.org/ "XML-Java binding tool")
- [XML Graphics](http://xmlgraphics.apache.org/ "Conversion from XML to graphical output")
- [ZooKeeper](http://zookeeper.apache.org/ "Centralized service for maintaining configuration information")

[Foundation](#)

- [FAQ](/foundation/faq.html)
- [Glossary](/foundation/glossary.html)
- [Licenses](/licenses/ "Overview of the Apache Licenses")
- [Trademarks](/foundation/marks/ "Apache marks policies and listing")
- [News](/foundation/news.html "Official news feed of Foundation announcements")
- [Press Inquiries](/press/ "Press, Media, and Analyst contact")
- [Public Records](/foundation/records/ "Formal corporate records and board meeting minutes")
- [Mailing Lists](/foundation/maillinglists.html "Mailing lists and Apache")
- [Sponsorship](/foundation/sponsorship.html "Sponsor the Foundation")
- [Donations](/foundation/contributing.html "Donate to the Foundation")
- [Buy Stuff](/foundation/buy_stuff.html "Buy Apache branded merchandise")
- [Thanks](/foundation/thanks.html "Thank you to our Sponsors")
- [Contact](/foundation/contact.html "Contact Us")

[Foundation Projects](#)

- [Attic](http://attic.apache.org/ "Inactive projects repository")
- [Conferences](/foundation/conferences.html "Meetings of developers and users")
- [Community Development](http://community.apache.org/ "Helping newcomers to the ASF")
- [Incubator](http://incubator.apache.org/ "Shepherd for new projects")
- [Infrastructure](/dev/ "ASF Infrastructure: Operations and howto documents for PMCs and contributors")
- [Labs](http://labs.apache.org/ "The Innovation Laboratories of the Apache Software Foundation")



```

<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
<li><a href="/press/" title="Public Relations">Public Relations</a></li>
<li><a href="/security/" title="Security">Security</a></li>
<li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
</ul>
</div>

<div class="grid_3">
<h4>Community</h4>
<ul>
<li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
<li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
<li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
<li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
<li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>

</ul>
</div>

<div class="grid_3">
<h4>How It Works</h4>
<ul>
<li><a href="/foundation/how-it-works.html">Introduction</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
<li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
<li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/voting.html">Voting</a></li>

</ul>
</div>
</div>
<div class="clear"></div>

</div>
<div id="copyright" class="container_16">
<p>Copyright © 2012 The Apache Software Foundation, Licensed under the <a href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>. <br/> Apache and the Apache feather logo are trademarks of The Apache Software Foundation.</p>
</div>
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

<head profile="http://www.w3.org/1999/xhtml/vocab">

```

```

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
<link rel="shortlink" href="/node/66" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<title>The MIT License (MIT) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbeEU.css" media="print"
/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?f7pm" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eow_y_iS9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"js":{"misc\/jquery.js":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1},"css":{"modules\/s
ystem\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"mod
ules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"m
odules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules
\/search\/search.css":1,"modules\/user\/user.css":1,"themes\/garland\/style.css":1,"themes\/garland\/print.css":1,"the
mes\/garland\/fix-ie.css":1}}});
//--><![ ]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node-
page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
<div id="container" class="clearfix">

<div id="header">
<div id="logo-floater">
<div id="branding"><strong><a href="/">

    <span>Open Source Initiative</span>    </a></strong></div>
    </div>

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

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

<h2 class="title">Search this site:</h2>

<div class="content">
    <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <div class="form-item form-type-textfield form-item-search-block-form">
<label class="element-invisible" for="edit-search-block-form--2">Search </label>
<input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
MyBqFtDVdzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
<div id="block-system-navigation" class="block block-system block-menu clearfix">

    <h2 class="title">Navigation</h2>

    <div class="content">
    <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
<li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The
Open Source Definition</a></li>
<li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
<li class="leaf"><a href="/working_groups">Working Groups</a></li>
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ</a></li>
<li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</a></li>
<li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open
Standards</a></li>
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education</a></li>
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists</a></li>

```

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<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
</div>

```

```

<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
  <h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
  <a id="main-content"></a>
  <div id="tabs-wrapper" class="clearfix">
    <h1 class="with-tabs">The MIT License
(MIT)</h1>
    </div>
    <div class="region region-content">
      <div id="block-system-main" class="block block-system clearfix">

```

```

<div class="content">
  <div id="node-66" class="node node-page">

```

```

<div class="content clearfix">
  
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
of this software and associated documentation files (the "Software"), to deal<br />
in the Software without restriction, including without limitation the rights<br />
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell<br />
copies of the Software, and to permit persons to whom the Software is<br />
furnished to do so, subject to the following conditions:</p>
<p>The above copyright notice and this permission notice shall be included in<br />
all copies or substantial portions of the Software.</p>
<p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR<br />
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,<br />

```

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE  
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN  
THE SOFTWARE.

```
<div class="clearfix">  
  <div class="links"></div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="region region-footer">
```

```
<div id="block-block-11" class="block block-block clearfix">
```

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

```
<p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a  
href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.  
</p>
```

```
<div>
```

```
<a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-  
lang="en">Follow @OpenSourceOrg</a>
```

```
<script>
```

```
<!--><![CDATA[><!--
```

```
!function(d,s,id){var
```

```
js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t  
witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}(document,"script","twitter-wjs");
```

```
//><![>
```

```
</script></div>
```

```
<p>
```

```
<!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/4.0/"></a><br />Opensource.org site content is licensed under a <a rel="license"
```

```
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International  
License</a>.<!-- /Creative Commons License -->
```

```
<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
```

```
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
```

```
<Work rdf:about="">
```

```
<license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
```

```

</Work>
<License rdf:about="http://creativecommons.org/licenses/by/3.0"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->

| <a href=" ../ToS">Terms of Service</a>

</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

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

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

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

//--><!]]>
</script> </div>
</div>
</div>
  </div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

  </div> <!-- /#container -->
</div> <!-- /#wrapper -->
</body>
</html>
<!DOCTYPE html>
<html>
<head>
  <title>jsoup License</title>
  <meta name="keywords" content="license, open source, mit">
  <meta name="description" content="jsoup is licensed under the MIT open source license">
  <link type="text/css" rel="stylesheet" href="/rez/style.css">
  <script type="text/javascript">

```

```

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-89734-10']);
_gaq.push(['_setDomainName', 'jsoup.org']);
_gaq.push(['_trackPageview']);

(function() {
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();
</script>
</head>
<body class="n1">
<div class="wrap">
<div class="header">
<div class="nav-sections">
<ul>
<li class="n1-home"><h4><a href="/">jsoup</a></h4></li>
<li class="n1-news"><a href="/news/">News</a></li>
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2Nnet/bytebuddy/asm/Advice$ArgumentHandler$ForInstrumentedMethod$Default$CopyingFnet/bytebuddy/asm/A
dvice$ArgumentHandler$ForInstrumentedMethod$DefaultAdvice.java5Lnet/bytebuddy/build/HashCodeAndEquals
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## 4.14 c3p0 0.9.5.2

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## 4.15 c3p0:JDBC DataSources/Resource Pools

### 0.9.1

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Other developers who have contributed code are:

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

Changed the URL of the Artifacts.

Revision level 1.1, last updated on 2007/11/19

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package org.eclipse.persistence.descriptors.copying;

import java.io.*;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b></p>: Allows customization of how an object is cloned.
 * An implementer of CopyPolicy can be set on a descriptor to provide
 * special cloning routine for how an object is cloned in a unit of work.
 *
 * By default the InstantiationCopyPolicy is used which creates a new instance of
 * the class to be copied into.
 *
 * The CloneCopyPolicy can also be used that uses a clone method in the object
 * to clone the object. When a clone method is used it avoid the requirement of having to
 * copy over each of the direct attributes.
 *
 * @see org.eclipse.persistence.descriptors.copying.CloneCopyPolicy
 * @see org.eclipse.persistence.descriptors.copying.InstantiationCopyPolicy
 */
public interface CopyPolicy extends Cloneable, Serializable {

    /**
     * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
     */
    Object buildClone(Object object, Session session) throws DescriptorException;

    /**
     * Return a shallow clone of the object for usage with the unit of work working copy.
     */
}
```

```

Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException;

/**
 * Return an instance with the primary key set from the row, used for building a working copy during a unit of
work transactional read.
 */
Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException;

/**
 * Clone the CopyPolicy.
 */
Object clone();

/**
 * Allow for any initialization or validation required.
 */
void initialize(Session session) throws DescriptorException;

/**
 * Set the descriptor.
 */
void setDescriptor(ClassDescriptor descriptor);

/**
 * Return if this copy policy creates a new instance, vs a clone.
 */
boolean buildsNewInstance();
}
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package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;

```



```

/**
 * <p><b>Purpose</b>: Allows customization of how an object is cloned.
 * This class defines common behavior that allows a subclass to be used
 * and set on a descriptor to provide a special cloning routine for how an object
 * is cloned in a unit of work.
 */
public abstract class AbstractCopyPolicy implements CopyPolicy {
    protected ClassDescriptor descriptor;

    public AbstractCopyPolicy() {
        super();
    }

    public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;

    /**
     * By default use the buildClone.
     */
    public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
        return buildClone(domainObject, session);
    }

    /**
     * By default create a new instance.
     */
    public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
        UnitOfWork uow) throws DescriptorException {
        return this.descriptor.getObjectBuilder().buildNewInstance();
    }

    /**
     * INTERNAL:
     * Clones the CopyPolicy
     */
    public Object clone() {
        try {
            // clones itself
            return super.clone();
        } catch (Exception exception) {
        }
        return null;
    }

    /**
     * Return the descriptor.
     */
    protected ClassDescriptor getDescriptor() {
        return descriptor;
    }

```

```

    }

    /**
     * Do nothing by default.
     */
    public void initialize(Session session) throws DescriptorException {
        // Do nothing by default.
    }

    /**
     * Set the descriptor.
     */
    public void setDescription(ClassDescriptor descriptor) {
        this.descriptor = descriptor;
    }
}

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package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b></p>: This is the default copy policy.
 *
 * It creates a copy by creating a new instance of the object and then using the
 * mappings specified for the object to populate the object.
 */
public class InstantiationCopyPolicy extends AbstractCopyPolicy {
    public InstantiationCopyPolicy() {
        super();
    }

    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        return getDescriptor().getObjectBuilder().buildNewInstance();
    }
}

```

```

    }

    public boolean buildsNewInstance() {
        return true;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}

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package org.eclipse.persistence.descriptors.copyping;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.descriptors.PersistenceObject;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b></p>: This is the default copy policy when weaving is used.
 *
 * It creates a copy by creating a shallow clone of the object using the weaved _persistence_shallow_clone() method.
 */
public class PersistenceEntityCopyPolicy extends AbstractCopyPolicy {
    public PersistenceEntityCopyPolicy() {
        super();
    }

    public Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException {
        return ((PersistenceObject)object)._persistence_shallow_clone();
    }

    public Object buildClone(Object object, Session session) throws DescriptorException {
        return ((PersistenceObject)object)._persistence_shallow_clone();
    }

    public boolean buildsNewInstance() {

```

```

    return false;
}

public String toString() {
    return Helper.getShortClassName(this) + "()";
}
}

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package org.eclipse.persistence.descriptors.copying;

import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.internal.sessions.AbstractRecord;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;
import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

/**
 * <p><b>Purpose</b></p> Allows a clone of an object to be created with a method that returns
 * the cloned object.
 *
 * It is possible to define methods for two types of clones
 *
 * 1. methodName can be set to define the method EclipseLink uses to clone objects for it's
 * own internal use. The objects created by this method will not be visible to the user, and
 * instead used as a basis for comparison when a DeferredChangeDetectionPolicy used. This method will
 * also be in place of the workingCopyMethod if it is not provided
 *
 * 2. workingCopyMethod this method is used to create the clone that is returned to the user when an
 * Object is registered in a UnitOfWork
 */

```

```

public class CloneCopyPolicy extends AbstractCopyPolicy {

    /** Allow for clone method to be specified. */
    protected String methodName;
    protected String workingCopyMethodName;
    protected transient Method method;
    protected transient Method workingCopyMethod;

    public CloneCopyPolicy() {
        super();
    }

    /**
     * Clone through calling the clone method.
     */
    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() == null) {
            return getDescriptor().getObjectBuilder().buildNewInstance();
        }
        try {
            if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
                try {
                    return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject,
new Object[0]));
                } catch (PrivilegedActionException exception) {
                    Exception throwableException = exception.getException();
                    if (throwableException instanceof IllegalAccessException) {
                        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                    } else {
                        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                    }
                }
            } else {
                return PrivilegedAccessHelper.invokeMethod(this.getMethod(), domainObject, new Object[0]);
            }
        } catch (IllegalAccessException exception) {
            throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
        } catch (InvocationTargetException exception) {
            throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
        }
    }
}

```

```

/**
 * Clone through the workingCopyClone method, or if not specified the clone method.
 */
public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
    if (this.getWorkingCopyMethodName() == null) {
        //not implemented to perform special operations.
        return this.buildClone(domainObject, session);
    }

    try {
        if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
            try {
                return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getWorkingCopyMethod(),
domainObject, new Object[0]));
            } catch (PrivilegedActionException exception) {
                Exception throwableException = exception.getException();
                if (throwableException instanceof IllegalAccessException) {
                    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                } else {
                    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                }
            }
        } else {
            return PrivilegedAccessHelper.invokeMethod(this.getWorkingCopyMethod(), domainObject, new
Object[0]);
        }

    } catch (IllegalAccessException exception) {
        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
    } catch (InvocationTargetException exception) {
        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
    }
}

/**
 * Create a new instance, unless a workingCopyClone method is specified, then build a new instance and clone it.
 */
@Override
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException {
    // For now must preserve CMP code which builds heavy clones with a context.
    // Also preserve for clients who use the copy policy.
    ObjectBuilder builder = getDescriptor().getObjectBuilder();
    if (getWorkingCopyMethodName() != null) {

```

```

        Object original = builder.buildNewInstance();
        builder.buildAttributesIntoShallowObject(original, (AbstractRecord)row, query);
        return buildWorkingCopyClone(original, query.getSession());
    } else {
        return builder.buildNewInstance();
    }
}

/**
 * Return the clone method.
 */
protected Method getMethod() {
    return method;
}

/**
 * Return the clone method name.
 */
public String getMethodName() {
    return methodName;
}

/**
 * Return the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected Method getWorkingCopyMethod() {
    return workingCopyMethod;
}

/**
 * Return the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */
public String getWorkingCopyMethodName() {
    return workingCopyMethodName;
}

/**
 * Validate and build the methods.
 */
public void initialize(Session session) throws DescriptorException {
    try {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() != null) {
            this.setMethod(Helper.getDeclaredMethod(this.getDescriptor().getJavaClass(), this.getMethodName(),
new Class[0]));
        }
    }
}

```

```

    } catch (NoSuchMethodException exception) {
session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.get
MethodName(), this.getDescriptor(), exception));
    } catch (SecurityException exception) {
session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethod
Name(), this.getDescriptor(), exception));
    }
    if (this.getWorkingCopyMethodName() != null) {
        try {
            this.setWorkingCopyMethod(Helper.getDeclaredMethod(this.getDescriptor().getJavaClass(),
this.getWorkingCopyMethodName(), new Class[0]));
        } catch (NoSuchMethodException exception) {
session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.get
MethodName(), this.getDescriptor(), exception));
        } catch (SecurityException exception) {
session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethod
Name(), this.getDescriptor(), exception));
        }
    }
}

/**
 * Set the clone method.
 */
protected void setMethod(Method method) {
    this.method = method;
}

/**
 * Set the clone method name.
 */
public void setMethodName(String methodName) {
    this.methodName = methodName;
}

/**
 * Set the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected void setWorkingCopyMethod(Method method) {
    this.workingCopyMethod = method;
}

/**
 * Set the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */
public void setWorkingCopyMethodName(String methodName) {

```



```

        this.workingCopyMethodName = methodName;
    }

    /**
     * Return false as a shallow clone is returned, not a new instance.
     */
    public boolean buildsNewInstance() {
        return getMethodName() == null;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "(" + this.getMethodName() + ")";
    }
}

```

<html>

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<title>Eclipse License</title>

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## 4.39 error-prone-annotations 2.2.0

## 4.40 error\_prone\_annotations 2.2.0

## 4.41 Expression Language 2.2

### Implementation 2.2.4

#### 4.41.1 Available under license :

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## 4.43 failureaccess 1.0.1

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src/manual/en\_US/docgen-originals/figures/tree\_with\_alpha.png  
src/manual/en\_US/favicon.png  
src/manual/en\_US/figures/model2sketch.png  
src/manual/en\_US/figures/overview.png  
src/manual/en\_US/figures/tree.png  
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src/manual/zh\_CN/favicon.png  
src/manual/zh\_CN/figures/model2sketch.png  
src/manual/zh\_CN/figures/overview.png  
src/manual/zh\_CN/figures/tree.png  
src/manual/zh\_CN/logo.png

## 4.46 guava 27.0.1-jre

## 4.47 Hibernate Validator Engine 5.1.3.Final

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## 4.48 hibernate-c3p0 3.5.4-Final

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That's all there is to it!

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### 5.0.4.Final

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# 4.62 httpcore 4.4.10

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## 4.63 j2objc-annotations 1.1

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<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
```

```

<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu" role="menu">

```

```

            <li><a href="/foundation">Overview</a></li>

```

```

            <li><a href="/foundation/members.html">Members</a></li>

```

```

            <li><a href="/foundation/how-it-works.html">Process</a></li>

```

```

            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

```

```

    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/foundation/preFAQ.html">FAQ</a></li>
    <li><a href="/foundation/contact.html ">Contact</a></li>
  </ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="http://people.apache.org">Overview</a></li>
    <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
    
  </div>

```

```

<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
  
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

<li><a href="/memorials/">Memorials</a></li>

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

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
  <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```

    </ul>
  </div>

  <div class="col-sm-1">
  </div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright © 2014-2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
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  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

## 4.64 j2objc-annotations 1.1

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JSR-330

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- \* file name: UBiDiProps.java
- \* encoding: US-ASCII
- \* tab size: 8 (not used)
- \* indentation:4
- \*
- \* created on: 2005jan16
- \* created by: Markus W. Scherer
- \*
- \* Low-level Unicode bidi/shaping properties access.
- \* Java port of ubidi\_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the `Replaceable` API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the **bold** font" has range (4, 8) replaced with "strong", then it becomes "the **strong** font".

`Replaceable` specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

`Replaceable` also includes API to access characters in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`.

For a subclass to support metadata, typical behavior of `replace()` is the following:

- 

- Set the metadata of the new text to the metadata of the first character replaced

- If no characters are replaced, use the metadata of the previous character

- If there is no previous character (i.e. start == 0), use the following character

- If there is no following character (i.e. the replaceable was empty), use default metadata

- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

- 



If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

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`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

**Note:** This class does not support attributes and is not intended for general use. Most clients will need to implement `Replaceable` in their text representation class.

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@see Replaceable  
@author Alan Liu  
@stable ICU 2.0

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```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
```

```
* Legacy security code; do not use.
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable {  
    public Permission(String name) { }
```

```
    public final String getName() { return null; }
```

```
    public void checkGuard(Object obj) throws SecurityException { }
```

```
    public PermissionCollection newPermissionCollection() {  
        return new AllPermissionCollection();  
    }
```

```
    public abstract String getActions();
```

```
    public abstract boolean implies(Permission permission);  
}
```

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From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, file\_io/unix/mktemp.c, strings/apr\_strings.c:

```
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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

\* Based on libdl (dlfcn.c/dlfcn.h) which is  
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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_snprintf.c:

\*  
\* cvt - IEEE floating point formatting routines.  
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## 4.73 jackson-jaxrs-json-provider 2.9.8

### 4.73.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

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## 4.74 jackson-module-jaxb-annotations 2.9.8

## 4.75 jandex 2.0.5.Final

## 4.76 Javassist 3.21.0-GA

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Javassist version 3

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## 4.83 javax.persistence-api 2.2

## 4.84 javax.ws.rs-api 2.0.1

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 */
// XMLWriter.java - serialize an XML document.
// Written by David Megginson, david@megginson.com
// NO WARRANTY! This class is in the public domain.
// AttributesImpl.java - default implementation of Attributes.
// http://www.saxproject.org
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```

```

/**
 * 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 JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */
// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
// Written by David Megginson
// This class is in the Public Domain. NO WARRANTY!
# RELAX NG Schema for WSDL 1.1 HTTP Binding
#
#           Written by Kohsuke Kawaguchi
#
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# RELAX NG Schema for WSDL 1.1 HTTP Binding
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## 4.110 json-smart 2.2.1

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## 4.116 logback-core 1.1.11

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 */
```

```
package org.springframework.boot.autoconfigure.template;
```

```
import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
import org.springframework.web.servlet.view.AbstractTemplateViewResolver;
```

```
/**
```

```

* Base class for {@link ConfigurationProperties} of a
* {@link AbstractTemplateViewResolver}.
*
* @author Andy Wilkinson
* @since 1.1.0
*/
public abstract class AbstractTemplateViewResolverProperties extends
    AbstractViewResolverProperties {

    /**
     * Prefix that gets prepended to view names when building a URL.
     */
    private String prefix;

    /**
     * Suffix that gets appended to view names when building a URL.
     */
    private String suffix;

    /**
     * Name of the RequestContext attribute for all views.
     */
    private String requestContextAttribute;

    /**
     * Set whether all request attributes should be added to the model prior to merging
     * with the template.
     */
    private boolean exposeRequestAttributes = false;

    /**
     * Set whether all HttpSession attributes should be added to the model prior to
     * merging with the template.
     */
    private boolean exposeSessionAttributes = false;

    /**
     * Set whether HttpServletRequest attributes are allowed to override (hide) controller
     * generated model attributes of the same name.
     */
    private boolean allowRequestOverride = false;

    /**
     * Set whether to expose a RequestContext for use by Spring's macro library, under the
     * name "springMacroRequestContext".
     */
    private boolean exposeSpringMacroHelpers = true;

```

```
protected AbstractTemplateViewResolverProperties(String defaultPrefix,
    String defaultSuffix) {
    this.prefix = defaultPrefix;
    this.suffix = defaultSuffix;
}

public String getPrefix() {
    return this.prefix;
}

public void setPrefix(String prefix) {
    this.prefix = prefix;
}

public String getSuffix() {
    return this.suffix;
}

public void setSuffix(String suffix) {
    this.suffix = suffix;
}

public String getRequestContextAttribute() {
    return this.requestContextAttribute;
}

public void setRequestContextAttribute(String requestContextAttribute) {
    this.requestContextAttribute = requestContextAttribute;
}

public boolean isExposeRequestAttributes() {
    return this.exposeRequestAttributes;
}

public void setExposeRequestAttributes(boolean exposeRequestAttributes) {
    this.exposeRequestAttributes = exposeRequestAttributes;
}

public boolean isExposeSessionAttributes() {
    return this.exposeSessionAttributes;
}

public void setExposeSessionAttributes(boolean exposeSessionAttributes) {
    this.exposeSessionAttributes = exposeSessionAttributes;
}

public boolean isAllowRequestOverride() {
    return this.allowRequestOverride;
}
```

```

}

public void setAllowRequestOverride(boolean allowRequestOverride) {
    this.allowRequestOverride = allowRequestOverride;
}

public boolean isExposeSpringMacroHelpers() {
    return this.exposeSpringMacroHelpers;
}

public void setExposeSpringMacroHelpers(boolean exposeSpringMacroHelpers) {
    this.exposeSpringMacroHelpers = exposeSpringMacroHelpers;
}

/**
 * Apply the given properties to a {@link AbstractTemplateViewResolver}. Use Object in
 * signature to avoid runtime dependency on MVC, which means that the template engine
 * can be used in a non-web application.
 *
 * @param viewResolver the resolver to apply the properties to.
 */
public void applyToViewResolver(Object viewResolver) {

    Assert.isInstanceOf(AbstractTemplateViewResolver.class, viewResolver,
        "ViewResolver is not an instance of AbstractTemplateViewResolver : "
        + viewResolver);
    AbstractTemplateViewResolver resolver = (AbstractTemplateViewResolver) viewResolver;
    resolver.setPrefix(getPrefix());
    resolver.setSuffix(getSuffix());
    resolver.setCache(isCache());
    resolver.setContentType(getContentType());
    resolver.setViewNames(getViewNames());
    resolver.setExposeRequestAttributes(isExposeRequestAttributes());
    resolver.setAllowRequestOverride(isAllowRequestOverride());
    resolver.setExposeSessionAttributes(isExposeSessionAttributes());
    resolver.setExposeSpringMacroHelpers(isExposeSpringMacroHelpers());
    resolver.setRequestContextAttribute(getRequestContextAttribute());
    // The resolver usually acts as a fallback resolver (e.g. like a
    // InternalResourceViewResolver) so it needs to have low precedence
    resolver.setOrder(Ordered.LOWEST_PRECEDENCE - 5);

}

}

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*/

```

```
package org.springframework.boot.autoconfigure.template;
```

```
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
```

```

/**
 * Indicates the availability of view templates for a particular templating engine such as
 * FreeMarker or Thymeleaf
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

```

```
public interface TemplateAvailabilityProvider {
```

```

/**
 * Returns {@code true} if a template is available for the given {@code view}.
 * @param view the view name
 * @param environment the environment
 * @param classLoader the class loader
 * @param resourceLoader the resource loader
 * @return if the template is available
 */

```

```
boolean isTemplateAvailable(String view, Environment environment,
    ClassLoader classLoader, ResourceLoader resourceLoader);
```

```
}
```

```

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```

```
package org.springframework.boot.autoconfigure.template;
```

```
import java.io.IOException;
```

```
import org.springframework.core.io.Resource;
```

```
import org.springframework.core.io.ResourceLoader;
```

```
import org.springframework.core.io.support.ResourcePatternResolver;
```

```
import org.springframework.util.Assert;
```

```
/**
```

```
 * Contains a location that templates can be loaded from.
```

```
 *
```

```
 * @author Phillip Webb
```

```
 * @since 1.2.1
```

```
 */
```

```
public class TemplateLocation {
```

```
    private final String path;
```

```
    public TemplateLocation(String path) {
```

```
        Assert.notNull(path, "Path must not be null");
```

```
        this.path = path;
```

```
    }
```

```
/**
```

```
 * Determine if this template location exists using the specified
```

```
 * {@link ResourcePatternResolver}.
```

```
 * @param resolver the resolver used to test if the location exists
```

```
 * @return {@code true} if the location exists.
```

```
 */
```

```
public boolean exists(ResourcePatternResolver resolver) {
```

```
    Assert.notNull(resolver, "Resolver must not be null");
```

```
    if (resolver.getResource(this.path).exists()) {
```

```
        return true;
```

```
    }
```

```
    try {
```

```
        if (anyExists(resolver)) {
```

```
            return true;
```

```
        }
```

```
    }
```

```
    catch (IOException ex) {
```

```
    }
```

```

return false;
}

private boolean anyExists(ResourcePatternResolver resolver) throws IOException {
    String searchPath = this.path;
    if (searchPath.startsWith(ResourceLoader.CLASSPATH_URL_PREFIX)) {
        searchPath = ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX
            + searchPath.substring(ResourceLoader.CLASSPATH_URL_PREFIX.length());
    }
    if (searchPath.startsWith(ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX)) {
        Resource[] resources = resolver.getResources(searchPath);
        for (Resource resource : resources) {
            if (resource.exists()) {
                return true;
            }
        }
    }
    return false;
}

@Override
public String toString() {
    return this.path;
}

}
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 */

package org.springframework.boot.autoconfigure.velocity;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

```

```

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Velocity view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class VelocityTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.velocity.app.VelocityEngine", classLoader)) {
            String loaderPath = environment.getProperty(
                "spring.velocity.resourceLoaderPath",
                VelocityProperties.DEFAULT_RESOURCE_LOADER_PATH);
            String prefix = environment.getProperty("spring.velocity.prefix",
                VelocityProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.velocity.suffix",
                VelocityProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(loaderPath + prefix + view + suffix)
                .exists();
        }
        return false;
    }

}

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 */

package org.springframework.boot.autoconfigure.web;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;

```



```

import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for JSP
 * view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class JspTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.jasper.compiler.JspConfig", classLoader)) {
            String prefix = environment.getProperty("spring.view.prefix",
                WebMvcAutoConfiguration.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.view.suffix",
                WebMvcAutoConfiguration.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }
        return false;
    }
}

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 */

package org.springframework.boot.autoconfigure.thymeleaf;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

```

```

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Thymeleaf view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class ThymeleafTemplateAvailabilityProvider implements
    TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.thymeleaf.spring4.SpringTemplateEngine",
            classLoader)) {
            String prefix = environment.getProperty("spring.thymeleaf.prefix",
                ThymeleafProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.thymeleaf.suffix",
                ThymeleafProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }
        return false;
    }

}

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 */

package org.springframework.boot.autoconfigure.freemarker;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

```

```

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * FreeMarker view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class FreeMarkerTemplateAvailabilityProvider implements
    TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("freemarker.template.Configuration", classLoader)) {
            String loaderPath = environment.getProperty("spring.freemarker.path",
                FreeMarkerProperties.DEFAULT_TEMPLATE_LOADER_PATH);
            String prefix = environment.getProperty("spring.freemarker.prefix",
                FreeMarkerProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.freemarker.suffix",
                FreeMarkerProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(loaderPath + prefix + view + suffix)
                .exists();
        }
        return false;
    }

}

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 */

package org.springframework.boot.autoconfigure.groovy.template;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;

```

```

import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for Groovy
 * view templates
 *
 * @author Dave Syer
 * @since 1.1.0
 */
public class GroovyTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("groovy.text.TemplateEngine", classLoader)) {
            String prefix = environment.getProperty("spring.groovy.template.prefix",
                GroovyTemplateProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.groovy.template.suffix",
                GroovyTemplateProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }
        return false;
    }
}

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 */
package org.springframework.boot.autoconfigure.groovy.template;

import groovy.text.markup.MarkupTemplateEngine;
import groovy.text.markup.TemplateConfiguration;
import groovy.text.markup.TemplateResolver;

import java.io.IOException;

```

```

import java.net.URL;

import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfigurer;
import org.springframework.web.servlet.view.groovy.GroovyMarkupViewResolver;

/**
 * A custom { @link groovy.text.markup.TemplateResolver template resolver } which resolves
 * templates using the locale found in the thread locale. This resolver ignores the
 * template engine configuration locale.
 *
 * @author Cdrlic Champeau
 * @since 1.1.0
 * @deprecated since 1.2 in favor of Spring 4.1's { @link GroovyMarkupViewResolver } and
 * { @link GroovyMarkupConfigurer }.
 */
@Deprecated
public class GroovyTemplateResolver implements TemplateResolver {

    private ClassLoader templateClassLoader;

    @Override
    public void configure(final ClassLoader templateClassLoader,
        final TemplateConfiguration configuration) {
        this.templateClassLoader = templateClassLoader;
    }

    @Override
    public URL resolveTemplate(final String templatePath) throws IOException {
        MarkupTemplateEngine.TemplateResource templateResource = MarkupTemplateEngine.TemplateResource
            .parse(templatePath);
        URL resource = this.templateClassLoader.getResource(templateResource.withLocale(
            LocaleContextHolder.getLocale().toString().replace("-", "_")).toString());
        if (resource == null) {
            // no resource found with the default locale, try without any locale
            resource = this.templateClassLoader.getResource(templateResource.withLocale(
                null).toString());
        }
        if (resource == null) {
            throw new IOException("Unable to load template:" + templatePath);
        }
        return resource;
    }
}
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*/
```

```
package org.springframework.boot.autoconfigure.groovy.template;
```

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

```
import java.util.Map;
```

```
import org.springframework.boot.autoconfigure.template.AbstractViewResolverProperties;
```

```
import org.springframework.boot.context.properties.ConfigurationProperties;
```

```
/**
```

```
 * { @link ConfigurationProperties } for configuring Groovy templates.
```

```
 *
```

```
 * @author Dave Syer
```

```
 * @since 1.1.0
```

```
 */
```

```
@ConfigurationProperties(prefix = "spring.groovy.template", ignoreUnknownFields = false)
```

```
public class GroovyTemplateProperties extends AbstractViewResolverProperties {
```

```
    public static final String DEFAULT_PREFIX = "classpath:/templates/";
```

```
    public static final String DEFAULT_SUFFIX = ".tpl";
```

```
    /**
```

```
     * Prefix that gets prepended to view names when building a URL.
```

```
     */
```

```
    private String prefix = DEFAULT_PREFIX;
```

```
    /**
```

```
     * Suffix that gets appended to view names when building a URL.
```

```
     */
```

```
    private String suffix = DEFAULT_SUFFIX;
```

```
    /**
```

```
     * Configuration to pass to TemplateConfiguration.
```

```
     */
```

```
    private Map<String, Object> configuration = new HashMap<String, Object>();
```

```

public String getPrefix() {
    return this.prefix;
}

public void setPrefix(String prefix) {
    this.prefix = prefix;
}

public String getSuffix() {
    return this.suffix;
}

public void setSuffix(String suffix) {
    this.suffix = suffix;
}

public void setConfiguration(Map<String, Object> configuration) {
    this.configuration = configuration;
}

public Map<String, Object> getConfiguration() {
    return this.configuration;
}

}
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 */

package org.springframework.boot.autoconfigure.groovy.template;

import groovy.text.markup.MarkupTemplateEngine;

import java.security.CodeSource;
import java.security.ProtectionDomain;

```

```

import javax.annotation.PostConstruct;
import javax.servlet.Servlet;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.autoconfigure.AutoConfigureAfter;
import org.springframework.boot.autoconfigure.condition.ConditionalOnClass;
import org.springframework.boot.autoconfigure.condition.ConditionalOnMissingBean;
import org.springframework.boot.autoconfigure.condition.ConditionalOnProperty;
import org.springframework.boot.autoconfigure.condition.ConditionalOnWebApplication;
import org.springframework.boot.autoconfigure.template.TemplateLocation;
import org.springframework.boot.autoconfigure.web.WebMvcAutoConfiguration;
import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.boot.context.properties.EnableConfigurationProperties;
import org.springframework.context.ApplicationContext;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
import org.springframework.web.servlet.view.UrlBasedViewResolver;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfig;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfigurer;
import org.springframework.web.servlet.view.groovy.GroovyMarkupViewResolver;

/**
 * Autoconfiguration support for Groovy templates in MVC. By default creates a
 * {@link MarkupTemplateEngine} configured from {@link GroovyTemplateProperties}, but you
 * can override that by providing your own {@link GroovyMarkupConfig} or even a
 * {@link MarkupTemplateEngine} of a different type.
 *
 * @author Dave Syer
 * @author Andy Wilkinson
 * @author Brian Clozel
 * @since 1.1.0
 */
@Configuration
@ConditionalOnClass(MarkupTemplateEngine.class)
@AutoConfigureAfter(WebMvcAutoConfiguration.class)
@EnableConfigurationProperties(GroovyTemplateProperties.class)
public class GroovyTemplateAutoConfiguration {

    @Configuration
    @ConditionalOnClass(GroovyMarkupConfigurer.class)
    public static class GroovyMarkupConfiguration {

        @Autowired
        private ApplicationContext applicationContext;

```



```

@Autowired
private GroovyTemplateProperties properties;

@Autowired(required = false)
private MarkupTemplateEngine templateEngine;

@PostConstruct
public void checkTemplateLocationExists() {
    if (this.properties.isCheckTemplateLocation() && !isUsingGroovyAllJar()) {
        TemplateLocation location = new TemplateLocation(
            this.properties.getPrefix());
        Assert.state(location.exists(this.applicationContext),
            "Cannot find template location: " + location
            + " (please add some templates, check your Groovy "
            + "configuration, or set spring.groovy.template."
            + "check-template-location=false)");
    }
}

/**
 * MarkupTemplateEngine could be loaded from groovy-templates or groovy-all.
 * Unfortunately it's quite common for people to use groovy-all and not actually
 * need templating support. This method check attempts to check the source jar so
 * that we can skip the { @code /template } folder check for such cases.
 * @return true if the groovy-all jar is used
 */
private boolean isUsingGroovyAllJar() {
    try {
        ProtectionDomain domain = MarkupTemplateEngine.class
            .getProtectionDomain();
        CodeSource codeSource = domain.getCodeSource();
        if (codeSource != null
            && codeSource.getLocation().toString().contains("-all")) {
            return true;
        }
    }
    catch (Exception ex) {
    }
    return false;
}

@Bean
@ConditionalOnMissingBean(GroovyMarkupConfig.class)
@ConfigurationProperties(prefix = "spring.groovy.template.configuration")
public GroovyMarkupConfigurer groovyMarkupConfigurer() {
    GroovyMarkupConfigurer configurer = new GroovyMarkupConfigurer();
    configurer.setResourceLoaderPath(this.properties.getPrefix());
}

```

```

    configurer.setCacheTemplates(this.properties.isCache());
    if (this.templateEngine != null) {
        configurer.setTemplateEngine(this.templateEngine);
    }
    return configurer;
}

}

@Configuration
@ConditionalOnClass({ Servlet.class, LocaleContextHolder.class,
    UrlBasedViewResolver.class })
@ConditionalOnWebApplication
@ConditionalOnProperty(name = "spring.groovy.template.enabled", matchIfMissing = true)
public static class GroovyWebConfiguration {

    @Autowired
    private GroovyTemplateProperties properties;

    @Bean
    @ConditionalOnMissingBean(name = "groovyMarkupViewResolver")
    public GroovyMarkupViewResolver groovyMarkupViewResolver() {
        GroovyMarkupViewResolver resolver = new GroovyMarkupViewResolver();
        configureViewResolver(resolver);
        return resolver;
    }

    private void configureViewResolver(UrlBasedViewResolver resolver) {
        resolver.setSuffix(this.properties.getSuffix());
        resolver.setCache(this.properties.isCache());
        resolver.setContentType(this.properties.getContentType());
        resolver.setViewNames(this.properties.getViewNames());
        resolver.setRequestContextAttribute("spring");
        // This resolver acts as a fallback resolver (e.g. like a
        // InternalResourceViewResolver) so it needs to have low precedence
        resolver.setOrder(Ordered.LOWEST_PRECEDENCE - 6);
    }

}

}

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*/
```

```
package org.springframework.boot.autoconfigure.mustache;
```

```
import java.io.InputStreamReader;
import java.io.Reader;
```

```
import org.springframework.context.ResourceLoaderAware;
import org.springframework.core.io.DefaultResourceLoader;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
```

```
import com.samskivert.mustache.Mustache;
import com.samskivert.mustache.Mustache.TemplateLoader;
```

```
/**
```

```
 * Mustache TemplateLoader implementation that uses a prefix, suffix and the Spring
 * Resource abstraction to load a template from a file, classpath, URL etc. A
 * TemplateLoader is needed in the Compiler when you want to render partials (i.e.
 * tiles-like fetatures).
```

```
 *
```

```
 * @author Dave Syer
```

```
 * @since 1.2.2
```

```
 * @see Mustache
```

```
 * @see Resource
```

```
 */
```

```
public class MustacheResourceTemplateLoader implements TemplateLoader,
    ResourceLoaderAware {
```

```
    private String prefix = "";
```

```
    private String suffix = "";
```

```
    private String charSet = "UTF-8";
```

```
    private ResourceLoader resourceLoader = new DefaultResourceLoader();
```

```
    public MustacheResourceTemplateLoader() {
    }
```

```
    public MustacheResourceTemplateLoader(String prefix, String suffix) {
```

```

super();
this.prefix = prefix;
this.suffix = suffix;
}

/**
 * @param charSet the charSet to set
 */
public void setCharset(String charSet) {
    this.charset = charSet;
}

/**
 * @param resourceLoader the resourceLoader to set
 */
@Override
public void setResourceLoader(ResourceLoader resourceLoader) {
    this.resourceLoader = resourceLoader;
}

@Override
public Reader getTemplate(String name) throws Exception {
    return new InputStreamReader(this.resourceLoader.getResource(
        this.prefix + name + this.suffix).getInputStream(), this.charset);
}

}
/*
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 */

package org.springframework.boot.autoconfigure.mustache;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;

```

```

import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Mustache view templates
 *
 * @author Dave Syer
 * @since 1.2.2
 */
public class MustacheTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("com.samskivert.mustache.Template", classLoader)) {
            String prefix = environment.getProperty("spring.mustache.prefix",
                MustacheProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.mustache.suffix",
                MustacheProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }
        return false;
    }
}

```

## 4.134 spring-boot-starter 1.5.18.RELEASE

## 4.135 spring-boot-starter 1.5.18-RELEASE

## 4.136 spring-boot-starter-actuator 1.5.18-RELEASE

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/\* Stax2 API extension for Streaming API for XML processing (StAX).

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*/
```

```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;  
import java.lang.annotation.Retention;  
import java.lang.annotation.RetentionPolicy;  
import java.lang.annotation.Target;
```

```
/**  
 * License metadata available within the info section of a Swagger definition, see  
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject  
 *  
 * @since 1.5.0  
 */
```

```
@Target(ElementType.ANNOTATION_TYPE)  
@Retention(RetentionPolicy.RUNTIME)  
public @interface License {
```

```
    /**  
     * The name of the license.  
     *  
     * @return the name of the license  
     */
```

```
    String name();
```

```
    /**  
     * An optional URL for the license.  
     *  
     * @return an optional URL for the license.  
     */
```

```
    String url() default "";
```

```
}
```

## 4.174 swagger-core 1.5.16

## 4.175 swagger-jaxrs 1.5.16

## 4.176 swagger-jersey2-jaxrs 1.5.16

## 4.177 swagger-models 1.5.20

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```
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;

import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
```

```

    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
}

```



```

if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
if (vendorExtensions == null) {
    if (other.vendorExtensions != null) {
        return false;
    }
} else if (!vendorExtensions.equals(other.vendorExtensions)) {
    return false;
}
return true;
}
}

```

## 4.178 tomcat-annotations-api 8.5.32

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- javaee\_web\_services\_1\_2.xsd
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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- web-common\_3\_0.xsd
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## 4.180 tomcat-embed-el 8.5.32

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

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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
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may be obtained from:

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## 5.1 animal-sniffer-annotations 1.17

## 5.2 aopalliance version 1.0 repackaged as a module 2.4.0-b06

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# 5.6 automation 1.11 :8

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## 5.12 Class Model for Hk2 2.4.0-b06

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

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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Version 2.1, February 1999

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

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

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

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For the following XML Schemas for Java EE Deployment Descriptors:

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

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## 5.20 dom4j 2.1.1

## 5.21 error\_prone\_annotations 2.2.0

## 5.22 error\_prone\_annotations 2.2.0

## 5.23 failureaccess 1.0.1

## 5.24 FindBugs-jsr305 1.3.9

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## 5.25 ganymed-ssh2 261 :2013-08-09

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## 5.26 generex 1.0.1

## 5.27 gson 2.8.5



## 5.28 guava 27.0.1-jre

# 5.29 Guava: Google Core Libraries for Java 18.0

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## 5.32 hibernate-validator 5.1.3

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Other developers who have contributed code are:

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# 5.42 httpclient-4.5.6 4.5.6

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## 5.44 j2objc-annotations 1.1

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
```



```

<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu" role="menu">

```

```

            <li><a href="/foundation">Overview</a></li>

```

```

            <li><a href="/foundation/members.html">Members</a></li>

```

```

            <li><a href="/foundation/how-it-works.html">Process</a></li>

```

```

            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

```

```

<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html ">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
    
  </div>

```

```

<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
  
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

<li><a href="/memorials/">Memorials</a></li>

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

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```



```

    </ul>
  </div>

  <div class="col-sm-1">
  </div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
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  </div>
  </div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

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## 5.75 jul-to-slf4j 1.7.12

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## 5.77 kubernetes-model 2.0.8

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# Perks for Go (golang.org)

Perks contains the Go package quantile that computes approximate quantiles over an unbounded data stream within low memory and CPU bounds.

For more information and examples, see:  
<http://godoc.org/github.com/bmizerany/perks>

A very special thank you and shout out to Graham Cormode (Rutgers University), Flip Korn (AT&T LabsâResearch), S. Muthukrishnan (Rutgers University), and Divesh Srivastava (AT&T LabsâResearch) for their research and publication of [Effective Computation of Biased Quantiles over Data Streams](<http://www.cs.rutgers.edu/~muthu/bquant.pdf>)

Thank you, also:

- \* Armon Dadgar (@armon)
- \* Andrew Gerrand (@nf)
- \* Brad Fitzpatrick (@bradfitz)
- \* Keith Rarick (@kr)

FAQ:

Q: Why not move the quantile package into the project root?

A: I want to add more packages to perks later.

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## 5.78 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

## 5.79 log4j 1.2.17

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```
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;

import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }

    @JsonAnyGetter
    public Map<String, Object> getVendorExtensions() {
```

```

    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
}

```

```
    }  
    return true;  
  }  
}
```

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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_1\_4.xsd
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## 5.136 tomcat-embed-logging-juli 8.0.23

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## 6.2 body-parser 1.18.2

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## 6.27 winston-daily-rotate-file 3.3.2

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## 6.28 xmlbuilder 9.0.7

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## 6.30 xpath 0.0.27

## 7.1 animal-sniffer-annotations 1.17

## 7.2 aopalliance version 1.0 repackaged as a module 2.4.0-b06

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## 7.9 byte-buddy 1.6.14

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## 7.10 c3p0 0.9.5.3

## 7.11 checker-qual 2.5.2

## 7.12 checker-qual 2.5.2

## 7.13 ClassMate 1.3.4

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## 7.16 commons-beanutils 1.9.3

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
```

```

<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu" role="menu">

```

```

            <li><a href="/foundation">Overview</a></li>

```

```

            <li><a href="/foundation/members.html">Members</a></li>

```

```

<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html ">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
</ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">

```

```

    
</div>
<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
    
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
    <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get Involved</a></li>

```
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
<li><a href="/memorials/">Memorials</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
</ul>
</div>
```

```

<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
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</div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

## 7.17 commons-beanutils 1.8.3

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Version 2.0, January 2004

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## 7.19 commons-codec 1.10

### 7.19.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```

<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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permissions and limitations under the License. -->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```



```

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
  <span class="sr-only">Toggle navigation</span>
  <span class="icon-bar"></span>
  <span class="icon-bar"></span>
  <span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span

```

```

class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
  <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/contributing.html">Donations</a></li>
  <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
  <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
  
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
  <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>

```

```

<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```

<footer class="bg-primary">
<div class="container">
  <div class="row">
    <br />
    <div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="http://community.apache.org/">Overview</a></li>
<li><a href="/foundation/conferences.html">Conferences</a></li>
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
<li><a href="/travel/">Travel Assistance</a></li>
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
<li><a href="/memorials/">Memorials</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">

```

```
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
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<p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```



# 7.20 commons-lang3 3.9

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## 7.22 error\_prone\_annotations 2.2.0

## 7.23 error\_prone\_annotations 2.2.0

## 7.24 failureaccess 1.0.1

## 7.25 Gson 2.3.1

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```
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 */
```

```
package com.google.gson.internal;
```

```
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
```

```
/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
public final class Primitives {
    private Primitives() {}

    /** A map from primitive types to their corresponding wrapper types. */
```

```

private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

/** A map from wrapper types to their corresponding primitive types. */
private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

// Sad that we can't use a BiMap :(

static {
    Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
    Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);

    add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
    add(primToWrap, wrapToPrim, byte.class, Byte.class);
    add(primToWrap, wrapToPrim, char.class, Character.class);
    add(primToWrap, wrapToPrim, double.class, Double.class);
    add(primToWrap, wrapToPrim, float.class, Float.class);
    add(primToWrap, wrapToPrim, int.class, Integer.class);
    add(primToWrap, wrapToPrim, long.class, Long.class);
    add(primToWrap, wrapToPrim, short.class, Short.class);
    add(primToWrap, wrapToPrim, void.class, Void.class);

    PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
    WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward,
    Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
    forward.put(key, value);
    backward.put(value, key);
}

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns {@code true} if {@code type} is one of the nine
 * primitive-wrapper types, such as {@link Integer}.
 *
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
        $Gson$Preconditions.checkNotNull(type));
}

```

```

/**
 * Returns the corresponding wrapper type of {@code type} if it is a primitive
 * type; otherwise returns {@code type} itself. Idempotent.
 * <pre>
 *   wrap(int.class) == Integer.class
 *   wrap(Integer.class) == Integer.class
 *   wrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of {@code type} if it is a
 * wrapper type; otherwise returns {@code type} itself. Idempotent.
 * <pre>
 *   unwrap(Integer.class) == int.class
 *   unwrap(int.class) == int.class
 *   unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}
}
}

```

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## 7.26 guava 27.0.1-jre

## 7.27 hibernate-validator 5.2.4.Final

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## 7.33 hk2-utils 2.4.0-b06

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# 7.35 httpcore 4.4.10

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## 7.36 j2objc-annotations 1.1

### 7.36.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
```

```

<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu" role="menu">

```

```

            <li><a href="/foundation">Overview</a></li>

```

```

            <li><a href="/foundation/members.html">Members</a></li>

```

```

            <li><a href="/foundation/how-it-works.html">Process</a></li>

```

```

            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

```

```

<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html ">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
    
  </div>

```

```

<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
  
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

<li><a href="/memorials/">Memorials</a></li>



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

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```

    </ul>
  </div>

  <div class="col-sm-1">
  </div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright © 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

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## 7.59 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

## 7.60 Log4j 1.2.16

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## 7.64 mapstruct 1.1.0.Final

## 7.65 mchange-commons-java 0.2.15

## 7.66 osgi-resource-locator 1.0.1

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## 7.72 SnakeYAML 1.14

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```

## 7.94 streamhtmlparser-jsilver 0.0.10.vaadin1

## 7.95 swagger-annotations 1.5.13

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 */

```

```
package io.swagger.annotations;
```

```

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

```

```

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}

```

## 7.96 swagger-models 1.5.13

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```

package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;

import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }
}

```

```

public License url(String url) {
    setUrl(url);
    return this;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    return result;
}

@Override

```

```

public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
    return true;
}
}

```

## 7.97 tiger-types 1.4

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

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## 7.101 tomcat-embed-logging-juli 7.0.34

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## 7.102 tomcat-embed-websocket 8.5.35

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