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 - 1.949.1 Available under license
- 1.950 regexp 1.5 :4.4.el6**
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- 1.955 repeating 2.0.0**
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1.967 rimraf 2.5.2
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1.977 Scala-reflect 2.11.1
1.978 Scala-stm_2.11 0.7

- 1.979 Scala-xml_2.11 1.0.1**
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 - 1.980.1 Available under license
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 - 1.995.1 Available under license
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 - 1.996.1 Available under license
- 1.997 shadow-utils 4.1.4.2 :13.el6**
 - 1.997.1 Available under license
- 1.998 shadow-utils_GPLv2 4.1.4.2 :13.el6**

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 - 1.1003.1 Available under license
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- 1.1007 SLF4J API Module 1.7.6**
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- 1.1009 slf4j-api 1.7.12**
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- 1.1014 snmp4j 2.3.1**
 - 1.1014.1 Available under license
- 1.1015 snmp4j 2.3.2**
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 - 1.1032.1 Available under license
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1.1039 Spring Context 4.1.6.RELEASE

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src.com.sun.xml.internal.messaging.saaj.packaging.mime.util.QDecoderStream

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1.1058 stax 1.0.1

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1.1059 StAX API 1.0.1

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1.1061 stax2-api 3.1.4

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1.1062 strace 4.5.19 :1.17.el6

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1.1063 stream-combiner 0.0.4

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1.1078 strip-bom 1.0.0

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- 1.1079 strip-bom 2.0.0**
 - 1.1079.1 Available under license
- 1.1080 strip-bom-stream 1.0.0**
 - 1.1080.1 Available under license
- 1.1081 strip-indent 1.0.1**
 - 1.1081.1 Available under license
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- 1.1084 sudo 1.8.6p3 :7.el6.**
 - 1.1084.1 Available under license
- 1.1085 supports-color 0.2.0**
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 - 1.1093.1 Available under license
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- 1.1206 wsdl4j 1.5.2 :7.8.e16**
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1.1227.1 Available under license

1.1228 xorg-x11-drv-ati-firmware 6.99.99 :1.el6

1.1228.1 Available under license

1.1229 xorg-x11-font-utils 7.2 :11.el6

1.1229.1 Available under license

1.1230 XPP - XML Pull Parser 3-1.1.3.4.O

1.1230.1 Available under license

1.1231 xstream 1.4.7

1.1231.1 Available under license

1.1232 xtend 3.0.0

1.1232.1 Available under license

1.1233 xtend 2.1.2

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1.1234 xtend 4.0.1

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1.1235 xz 4.999.9 :0.5.beta.20091007git.el6

1.1235.1 Available under license

1.1236 xz-lzma-compatible 4.999.9 :0.5.beta.20091007git.el6

- 1.1236.1 Available under license
- 1.1237 y18n 3.2.0**
- 1.1237.1 Available under license
- 1.1238 yajl 1.0.7 :3.e16**
- 1.1238.1 Available under license
- 1.1239 yargs 3.29.0**
- 1.1239.1 Available under license
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1.1 abbrev 1.0.7

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1.4 acorn 0.11.0

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1.5 Activation 1.1 1.1

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1.7 akka-actor_2.11 2.3.4

1.8 akka-slf4j_2.11 2.3.4

1.9 alsa-lib 1.0.22 :3.el6

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1.10 alsa-utils 1.0.22 :9.el6_6

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1.39 append-field 0.1.0

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1.40 archy 1.0.0

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1.41 are-we-there-yet 1.0.5

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1.42 argparse 1.2.1

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

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

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

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1.43 arr-diff 2.0.0

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1.50 arraybuffer.slice 0.0.6

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1.67 async 0.1.15

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1.69 `async-each` 0.1.6

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1.71 async-http-client 1.8.5

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1.73 atmel-firmware 1.3 :7.el6

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/*_*- linux-c *_- *****

Firmware loader for Atmel at76c502 at76c504 and at76c506 wireless cards.

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1.76 authenticate-pam 1.0.0

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1.77 avahi 0.6.25 :15.e16

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```

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# $Id$
#
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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

1.78 avaje-ebeanorm 3.3.4

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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1.80 avalon-framework-api 4.3.1

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1.89 backbone.js 0.9.10

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1.90 backo2 1.0.2

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1.91 balanced-match 0.3.0

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1.92 base64-arraybuffer 0.1.2

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1.94 base64url 0.0.6

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1.95 batch 0.5.3

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1.96 bc 1.51

1.97 bcel 5.2 :7.2.el6

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```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
```

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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The licenses for most software are designed to take away your
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Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
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your libraries, too.

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anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis

or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the

libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General

Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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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.

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

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1.114 boom 2.10.1

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1.115 bootstrap 3.0.0

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1.116 bootstrap-colorpicker.js 2.1.1

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1.117 bootstrap-datepicker.js n/a

1.118 bootstrap-daterangepicker.js 1.3.13

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1.119 bootstrap-tagsinput.min.js 0.5

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1.120 bootstrap-timepicker.js 0.2.6

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1.124 browser-sync 2.11.1

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1.125 browser-sync-client 2.4.1

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1.126 browser-sync-ui 0.5.18

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1.128 btrace-agent 1.2.3

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1.134 busboy 0.2.13

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1.158 cloog-ppl 0.15.7 :1.2.e16

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Name: cloud-init

Maintainer: Scott Moser <scott.moser@canonical.com>

Source: <https://launchpad.net/cloud-init>

This package was debianized by Soren Hansen <soren@ubuntu.com> on Thu, 04 Sep 2008 12:49:15 +0200 as ec2-init. It was later renamed to cloud-utils by Scott Moser <scott.moser@canonical.com>

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1.195 connect 1.9.2

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1.201 cookie 0.1.2

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

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

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copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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1.205 crc 3.0.0

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

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

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

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- 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

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

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

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

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

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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```
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```

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

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

That's all there is to it!

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002
```

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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#

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#

Clean up the history file. 10 Record types: MAR OFT WUCG

1.211 d3 2.10.2

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```
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```

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```

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1.218 dateformat 1.0.12

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1.226 debug 0.8.1

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1.227 decamelize 1.1.2

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1.228 deep-extend 0.4.0

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1.229 defaults 1.0.3

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1.230 del 1.2.1

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1.233 depd 0.4.5

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1.234 depd 1.1.0

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1.235 deprecated 0.0.1

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1.236 derbyclient 10.4.1

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1.237 destroy 1.0.4

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1.239 dev-ip 1.0.1

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```

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1.245 drbd84-utils 8.9.2-1.e6

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1.256 ee-first 1.1.0

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1.259 ehcache 2.7.4

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1.271 es6-promise 2.3.0

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1.277 event-stream 3.3.2

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1.278 eventemitter3 1.1.1

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1.279 exabgp 3.2.16

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1.280 expand-brackets 0.1.4

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1.281 expand-range 1.8.1

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1.283 express 4.9.8

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1.284 express-jwt 0.2.2

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1.285 extend 3.0.0

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1.286 extend 2.0.1

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1.287 extend-shallow 2.0.1

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1.288 extglob 0.3.2

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1.289 extsprintf 1.0.2

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1.290 fancy-log 1.2.0

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1.291 fastinfoset 1.2.8

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*/

```
package org.jvnet.fastinfoset;
```

```
import java.io.IOException;  
import java.io.InputStream;  
import java.io.OutputStream;
```

```
public interface EncodingAlgorithm {
```

```
    public Object decodeFromBytes(byte[] b, int start, int length) throws EncodingAlgorithmException;
```

```
    public Object decodeFromInputStream(InputStream s) throws EncodingAlgorithmException, IOException;
```

```
    public void encodeToOutputStream(Object data, OutputStream s) throws EncodingAlgorithmException,  
    IOException;
```

```
    public Object convertFromCharacters(char[] ch, int start, int length) throws EncodingAlgorithmException;
```

```
    public void convertToCharacters(Object data, StringBuffer s) throws EncodingAlgorithmException;
```

```
}
```

1.292 faye-websocket 0.7.3

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1.293 filename-regex 2.0.0

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1.294 fill-range 2.2.3

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1.295 finalhandler 0.4.1

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1.296 finalhandler 0.2.0

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1.300 FindBugs-jsr305 2.0.3

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1.301 findup-sync 0.2.1

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1.302 findup-sync 0.3.0

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1.303 first-chunk-stream 1.0.0

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1.304 flagged-respawn 0.3.1

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1.305 flute 1.3.0 :3.OOo31.e16

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1.306 flyway-core 3.1

1.307 fontconfig 2.8.0 :5.el6

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1.308 fontpackages 1.41 :1.1.el6

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1.309 for-in 0.1.4

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1.324 gauge 1.2.2

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```

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1.328 generate-object-property 1.2.0

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```

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```
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```

```
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```
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```

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```

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

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

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```

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```

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

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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- 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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@smallexample

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

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@end smallexample

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when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) 19@var{yy} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show
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@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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1.337 gift 0.6.1

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1.353 globalize-min.js 0.1.0

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1.357 google-gson 2.2.4

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1.358 graceful-fs 4.1.3

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* <http://asm.objectweb.org/>

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* ASM: a very small and fast Java bytecode manipulation framework

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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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1.367 gtk2 2.24.23 :6.e16

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.404 hibernate-c3p0 4.3.8-Final

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1.406 hibernate-jpa-2.0-api 1.0.1.Final

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1.407 hibernate-validator 5.0.3.Final

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1.408 hibernate-validator 5.1.3

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

Other developers who have contributed code are:

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1.422 hosted-git-info 2.1.4

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1.425 http-proxy 1.13.2

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* Kevin Hendricks (MySpell) and Laszlo Nemeth (Hunspell).
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 *
 * An almost complete rewrite of MySpell for use by
 * the Mozilla project has been developed by David Einstein
 * (Deinst@world.std.com). David and I are now
 * working on parallel development tracks to help
 * our respective projects (Mozilla and OpenOffice.org
 * and we will maintain full affix file and dictionary
 * file compatibility and work on merging our versions
 * of MySpell back into a single tree. David has been
 * a significant help in improving MySpell.
 *
 * Special thanks also go to La'szlo' Ne'meth
 * <nemethl@gyorsposta.hu> who is the author of the
 * Hungarian dictionary and who developed and contributed
 * the code to support compound words in MySpell

- * and fixed numerous problems with the encoding
- * case conversion tables.
- *
- */

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- *
- * An almost complete rewrite of MySpell for use by
- * the Mozilla project has been developed by David Einstein
- * (Deinst@world.std.com). David and I are now
- * working on parallel development tracks to help
- * our respective projects (Mozilla and OpenOffice.org
- * and we will maintain full affix file and dictionary
- * file compatibility and work on merging our versions
- * of MySpell back into a single tree. David has been
- * a significant help in improving MySpell.
- *
- * Special thanks also go to La'szlo' Ne'meth
- * <nemethl@gyorsposta.hu> who is the author of the
- * Hungarian dictionary and who developed and contributed

* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.
*
*/

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1.479 Jackson 1.9.2

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1.483 jackson-core 2.3.2

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1.486 jackson-core-asl 1.9.2

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/* Jackson JSON-processor.

*

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1.487 jackson-core-asl 1.9.13

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1.492 Jackson-dataformat-YAML 2.4.1

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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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*

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<para>
The primary ANTLR guy:
</para>

<para>
Terence Parr
</para>
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</para>

</blockquote>

<para>

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

</para>

<para>

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

</para>

<blockquote>

<para>

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

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.

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

under certain conditions; type 'show c' for details.

</para>

</blockquote>

<para>

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

</para>

<para>

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:

</para>

<blockquote>

<para>

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

</para>

<para>

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

</para>

</blockquote>

<para>

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</para>

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encoding="iso-8859-1" ?>

<!-- \$Id: license-sun-public.xml,v 1.2 2006/01/13 20:24:04 notzippy Exp \$ -->

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<listitem>
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</listitem>
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Version 2.1, February 1999

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1.1

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*/

```

```

/*
* @(#)ASCIIUtility.java 1.11 07/05/04
*/

```

```

package com.sun.mail.util;

```

```

import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.InputStream;
import java.io.IOException;

```

```

public class ASCIIUtility {

```

```

    // Private constructor so that this class is not instantiated
    private ASCIIUtility() { }

```

```

    /**

```

```

     * Convert the bytes within the specified range of the given byte
     * array into a signed integer in the given radix . The range extends
     * from <code>start</code> till, but not including <code>end</code>. <p>
     *

```

```

     * Based on java.lang.Integer.parseInt()
     */

```

```

    public static int parseInt(byte[] b, int start, int end, int radix)
    throws NumberFormatException {
    if (b == null)
        throw new NumberFormatException("null");

```

```

    int result = 0;
    boolean negative = false;

```

```

int i = start;
int limit;
int multmin;
int digit;

if (end > start) {
    if (b[i] == '-') {
        negative = true;
        limit = Integer.MIN_VALUE;
        i++;
    } else {
        limit = -Integer.MAX_VALUE;
    }
    multmin = limit / radix;
    if (i < end) {
        digit = Character.digit((char)b[i++], radix);
        if (digit < 0) {
            throw new NumberFormatException(
                "illegal number: " + toString(b, start, end)
            );
        } else {
            result = -digit;
        }
    }
    while (i < end) {
        // Accumulating negatively avoids surprises near MAX_VALUE
        digit = Character.digit((char)b[i++], radix);
        if (digit < 0) {
            throw new NumberFormatException("illegal number");
        }
        if (result < multmin) {
            throw new NumberFormatException("illegal number");
        }
        result *= radix;
        if (result < limit + digit) {
            throw new NumberFormatException("illegal number");
        }
        result -= digit;
    }
} else {
    throw new NumberFormatException("illegal number");
}

if (negative) {
    if (i > start + 1) {
        return result;
    } else { /* Only got "-" */
        throw new NumberFormatException("illegal number");
    }
}

```

```

} else {
    return -result;
}
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a signed integer . The range extends from
 * <code>start</code> till, but not including <code>end</code>. <p>
 */
public static int parseInt(byte[] b, int start, int end)
throws NumberFormatException {
return parseInt(b, start, end, 10);
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a signed long in the given radix . The range extends
 * from <code>start</code> till, but not including <code>end</code>. <p>
 *
 * Based on java.lang.Long.parseLong()
 */
public static long parseLong(byte[] b, int start, int end, int radix)
throws NumberFormatException {
if (b == null)
    throw new NumberFormatException("null");

long result = 0;
boolean negative = false;
int i = start;
long limit;
long multmin;
int digit;

if (end > start) {
    if (b[i] == '-') {
        negative = true;
        limit = Long.MIN_VALUE;
        i++;
    } else {
        limit = -Long.MAX_VALUE;
    }
    multmin = limit / radix;
    if (i < end) {
        digit = Character.digit((char)b[i++], radix);
        if (digit < 0) {
            throw new NumberFormatException(
                "illegal number: " + toString(b, start, end)

```

```

);
} else {
    result = -digit;
}
}
while (i < end) {
// Accumulating negatively avoids surprises near MAX_VALUE
digit = Character.digit((char)b[i++], radix);
if (digit < 0) {
    throw new NumberFormatException("illegal number");
}
if (result < multmin) {
    throw new NumberFormatException("illegal number");
}
result *= radix;
if (result < limit + digit) {
    throw new NumberFormatException("illegal number");
}
result -= digit;
}
} else {
    throw new NumberFormatException("illegal number");
}
}
if (negative) {
    if (i > start + 1) {
        return result;
    } else { /* Only got "-" */
        throw new NumberFormatException("illegal number");
    }
} else {
    return -result;
}
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a signed long . The range extends from
 * <code>start</code> till, but not including <code>end</code>. <p>
 */
public static long parseLong(byte[] b, int start, int end)
throws NumberFormatException {
return parseLong(b, start, end, 10);
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a String. The range extends from <code>start</code>
 * till, but not including <code>end</code>. <p>

```

```

    */
    public static String toString(byte[] b, int start, int end) {
int size = end - start;
char[] theChars = new char[size];

for (int i = 0, j = start; i < size; )
    theChars[i++] = (char)(b[j++]&0xff);

return new String(theChars);
    }

    public static String toString(ByteArrayInputStream is) {
int size = is.available();
char[] theChars = new char[size];
byte[] bytes = new byte[size];

is.read(bytes, 0, size);
for (int i = 0; i < size;)
    theChars[i] = (char)(bytes[i++]&0xff);

return new String(theChars);
    }

    public static byte[] getBytes(String s) {
char [] chars= s.toCharArray();
int size = chars.length;
byte[] bytes = new byte[size];

for (int i = 0; i < size;)
    bytes[i] = (byte) chars[i++];
return bytes;
    }

    public static byte[] getBytes(InputStream is) throws IOException {

int len;
int size = 1024;
byte [] buf;

if (is instanceof ByteArrayInputStream) {
    size = is.available();
    buf = new byte[size];
    len = is.read(buf, 0, size);
}
else {
    ByteArrayOutputStream bos = new ByteArrayOutputStream();

```

```
    buf = new byte[size];
    while ((len = is.read(buf, 0, size)) != -1)
bos.write(buf, 0, len);
    buf = bos.toByteArray();
}
return buf;
}
}
```

1.529 JavaMail 1.4 1.7.1

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1.9.13

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*/
// XMLWriter.java - serialize an XML document.
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// AttributesImpl.java - default implementation of Attributes.
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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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*/

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1.558 jboss-logging 3.2.0.Final

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1.559 jcl-over-slf4j 1.7.6

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*/

package org.apache.commons.logging;

/**

* <p>A simple logging interface abstracting logging APIs. In order to be

* instantiated successfully by { @link LogFactory }, classes that implement

* this interface must have a constructor that takes a single String

* parameter representing the "name" of this Log.</p>

*

* <p> The six logging levels used by <code>Log</code> are (in order):

*

* trace (the least serious)

* debug

* info

* warn

* error

```

* <li>fatal (the most serious)</li>
* </ol>
* The mapping of these log levels to the concepts used by the underlying
* logging system is implementation dependent.
* The implementation should ensure, though, that this ordering behaves
* as expected.</p>
*
* <p>Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information
* to be logged).</p>
*
* <p> For example,
* <code><pre>
*   if (log.isDebugEnabled()) {
*       ... do something expensive ...
*       log.debug(theResult);
*   }
* </pre></code>
* </p>
*
* <p>Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.</p>
*
* <p style="color: #E40; font-weight: bold;">Please note that this interface is identical to that found in JCL
1.1.1.</p>
*
* @author <a href="mailto:sanders@apache.org">Scott Sanders</a>
* @author Rod Waldhoff
* @version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $
*/
public interface Log {

    // ----- Logging Properties

    /**
     * <p> Is debug logging currently enabled? </p>
     *
     * <p> Call this method to prevent having to perform expensive operations
     * (for example, <code>String</code> concatenation)
     * when the log level is more than debug. </p>
     */
    public boolean.isDebugEnabled();

```

```
/**
 * <p> Is error logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than error. </p>
 */
public boolean isErrorEnabled();
```

```
/**
 * <p> Is fatal logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than fatal. </p>
 */
public boolean isFatalEnabled();
```

```
/**
 * <p> Is info logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than info. </p>
 *
 * @return true if info enabled, false otherwise
 */
public boolean isInfoEnabled();
```

```
/**
 * <p> Is trace logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than trace. </p>
 *
 * @return true if trace enabled, false otherwise
 */
public boolean isTraceEnabled();
```

```
/**
 * <p> Is warn logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
```

```

* (for example, <code>String</code> concatenation)
* when the log level is more than warn. </p>
*/
public boolean isWarnEnabled();

// ----- Logging Methods

/**
 * <p> Log a message with trace log level. </p>
 *
 * @param message log this message
 */
public void trace(Object message);

/**
 * <p> Log an error with trace log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void trace(Object message, Throwable t);

/**
 * <p> Log a message with debug log level. </p>
 *
 * @param message log this message
 */
public void debug(Object message);

/**
 * <p> Log an error with debug log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void debug(Object message, Throwable t);

/**
 * <p> Log a message with info log level. </p>
 *
 * @param message log this message
 */

```

```

public void info(Object message);

/**
 * <p> Log an error with info log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void info(Object message, Throwable t);

/**
 * <p> Log a message with warn log level. </p>
 *
 * @param message log this message
 */
public void warn(Object message);

/**
 * <p> Log an error with warn log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void warn(Object message, Throwable t);

/**
 * <p> Log a message with error log level. </p>
 *
 * @param message log this message
 */
public void error(Object message);

/**
 * <p> Log an error with error log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void error(Object message, Throwable t);

/**
 * <p> Log a message with fatal log level. </p>

```

```

*
* @param message log this message
*/
public void fatal(Object message);

/**
* <p> Log an error with fatal log level. </p>
*
* @param message log this message
* @param t log this cause
*/
public void fatal(Object message, Throwable t);

}

```

1.560 jcl-over-slf4j 1.7.11

1.561 JDom JDom 1.1

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```

=====
/*--

```

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1.586 jnr-constants 0.8.5

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1.588 jnr-ffi 1.0.10

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```
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*  
* File:    jquery.dataTables.yadcf.js  
* Version: 0.8.3  
*  
* Author:   Daniel Reznick  
* Info:    https://github.com/vedmack/yadcf  
* Contact:  vedmack@gmail.com  
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1.603 jquery.multi-select.js 0.9.12

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1.604 jquery.selectBoxIt.min.js 3.8.1

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1.605 jquery.validate.min.js 1.13

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1.606 JRuby Core 1.7.15

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```

```
require 'jruby/java/java_module'
require 'jruby/java/java_package_module_template'
require 'jruby/java/java_utilities'
```

```
require 'jruby/java/core_ext'
require 'jruby/java/java_ext'
```

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```
package org.jruby;
```

```
/**
```

```
* An almost entirely useless interface for those objects that we really want
```

```
* to finalize.
```

```
*
```

```
* @author pldms
```

```
*
```

```
*/
```

```
public interface Finalizable {  
    public void finalize() throws Throwable;  
}
```

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1.623 jul-to-slf4j 1.7.12

1.624 jul-to-slf4j 1.7.6

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```

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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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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 lwt.eu> :

- o Extended VRRP framework to support floating priority.

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1.632 keyutils 1.4 :5.el6

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1.633 kind-of 3.0.2

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1.634 klaw 1.1.3

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1.635 lazy-cache 0.2.7

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1.636 lazystream 1.0.0

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1.638 libacl 2.2.49 :6.el6

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1.641 libevent 1.4.13 :4.el6

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# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
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# Guess values for system-dependent variables and create Makefiles.
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*/
/* The original version of this module was written by Adam Langley; for
* a history of modifications, check out the subversion logs.
*
* When editing this module, try to keep it re-mergeable by Adam. Don't
* reformat the whitespace, add Tor dependencies, or so on.
*
* TODO:
* - Support IPv6 and PTR records.
* - Replace all externally visible magic numbers with #defined constants.
* - Write documentation for APIs of all external functions.
*/

/* Async DNS Library
* Adam Langley <agl@imperialviolet.org>
* http://www.imperialviolet.org/eventdns.html
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1.642 libfontenc 1.0.5 :2.el6

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1.643 libgssglue 0.1 :11.el6

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Authors: Kevin Coffman, J. Bruce Fields, et. al.

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1.644 libICE 1.0.6 :1.el6

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1.645 libjpeg-turbo 1.2.1 :3.el6_5

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Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.

usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.

*.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 package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

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.

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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.

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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. 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/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

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

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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.646 libselinux-utils 2.0.94 :5.8.el6

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1.647 libSM 1.2.1 :2.e16

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1.648 libss 1.41.12 :14.e16

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Gadi Oxman, August 1995

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```
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under certain conditions; type `show c' for details.
```

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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:

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

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

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

```
find . -type f ! -name \*~ ! -exec grep -q Begin-Header \{\} \; -print \
| grep -v ^./build
```

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

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

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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1.649 libssh2 1.4.2 :1.el6_6.1

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```

```
*/
```

```
/* Note: This include file is only needed for using the  
* publickey SUBSYSTEM which is not the same as publickey  
* authentication. For authentication you only need libssh2.h  
*
```

```
* For more information on the publickey subsystem,  
* refer to IETF draft: secsh-publickey
```

```
*/
```

```
#ifndef LIBSSH2_PUBLICKEY_H  
#define LIBSSH2_PUBLICKEY_H 1
```

```
#include "libssh2.h"
```

```
typedef struct _LIBSSH2_PUBLICKEY      LIBSSH2_PUBLICKEY;
```

```
typedef struct _libssh2_publickey_attribute {  
    const char *name;  
    unsigned long name_len;  
    const char *value;  
    unsigned long value_len;  
    char mandatory;  
} libssh2_publickey_attribute;
```

```
typedef struct _libssh2_publickey_list {  
    unsigned char *packet; /* For freeing */  
  
    const unsigned char *name;  
    unsigned long name_len;  
    const unsigned char *blob;  
    unsigned long blob_len;  
    unsigned long num_attrs;  
    libssh2_publickey_attribute *attrs; /* free me */  
} libssh2_publickey_list;
```

```

/* Generally use the first macro here, but if both name and value are string literals, you can use _fast() to take
advantage of preprocessing */
#define libssh2_publickey_attribute(name, value, mandatory) \
    { (name), strlen(name), (value), strlen(value), (mandatory) },
#define libssh2_publickey_attribute_fast(name, value, mandatory) \
    { (name), sizeof(name) - 1, (value), sizeof(value) - 1, (mandatory) },

#ifdef __cplusplus
extern "C" {
#endif

/* Publickey Subsystem */
LIBSSH2_API LIBSSH2_PUBLICKEY *libssh2_publickey_init(LIBSSH2_SESSION *session);

LIBSSH2_API int libssh2_publickey_add_ex(LIBSSH2_PUBLICKEY *pkey,
                                         const unsigned char *name,
                                         unsigned long name_len,
                                         const unsigned char *blob,
                                         unsigned long blob_len, char overwrite,
                                         unsigned long num_attrs,
                                         const libssh2_publickey_attribute attrs[]);
#define libssh2_publickey_add(pkey, name, blob, blob_len, overwrite, \
                              num_attrs, attrs) \
    libssh2_publickey_add_ex((pkey), (name), strlen(name), (blob), (blob_len), \
                              (overwrite), (num_attrs), (attrs))

LIBSSH2_API int libssh2_publickey_remove_ex(LIBSSH2_PUBLICKEY *pkey,
                                           const unsigned char *name,
                                           unsigned long name_len,
                                           const unsigned char *blob,
                                           unsigned long blob_len);
#define libssh2_publickey_remove(pkey, name, blob, blob_len) \
    libssh2_publickey_remove_ex((pkey), (name), strlen(name), (blob), (blob_len))

LIBSSH2_API int
libssh2_publickey_list_fetch(LIBSSH2_PUBLICKEY *pkey,
                             unsigned long *num_keys,
                             libssh2_publickey_list **pkey_list);
LIBSSH2_API void libssh2_publickey_list_free(LIBSSH2_PUBLICKEY *pkey,
                                             libssh2_publickey_list *pkey_list);

LIBSSH2_API int libssh2_publickey_shutdown(LIBSSH2_PUBLICKEY *pkey);

#ifdef __cplusplus
} /* extern "C" */
#endif

```

1.650 libthai 0.1.12 :3.el6

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Version 2.1, February 1999

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1.651 libtiff 3.9.4 :10.el6_5

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1.652 libXau 1.0.6 :4.el6

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1.653 libXcomposite 0.4.3 :4.el6

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1.654 libXcursor 1.1.14 :2.1.el6

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1.655 libXdamage 1.1.3 :4.e16

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1.656 libXext 1.3.2 :2.1.e16

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1.657 libXfixes 5.0.1 :2.1.el6

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1.658 libXfont 1.4.5-4.el6_6

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/* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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1.659 libXft 2.3.1 :2.e16

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1.660 libXi 1.7.2 :2.2.el6

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1.661 libXinerama 1.1.3 :2.1.e16

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1.662 libXrandr 1.4.1 :2.1.el6

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1.663 libXrender 0.9.8 :2.1.el6

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1.664 libXtst 1.2.2 :2.1.e16

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1.666 liftoff 2.2.0

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1.668 livereload-js 2.2.2

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1.669 Im_sensors 3.1.1 :17.el6

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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1.684 `lodash._createassigner` 3.1.1

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1.688 Iodash._getnative 3.9.1

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1.689 Iodash._htmlescapes 2.4.1

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1.706 Iodash.isobject 2.4.1

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1.707 Iodash.isplainobject 3.2.0

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1.708 Iodash.istypedarray 3.0.5

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1.710 Iodash.keys 2.4.1

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1.711 Iodash.keysin 3.0.8

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1.712 Iodash.merge 3.3.2

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1.718 Iodash.template 2.4.1

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1.720 Iodash.templatesettings 3.1.1

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1.722 `lodash.topplainobject` 3.0.0

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1.724 Log4J 1.2.16

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```
cat logback-core-1.1.2-sources/ch/qos/logback/core/LayoutBase.java
```

```
/**
```

```
* Logback: the reliable, generic, fast and flexible logging framework.
```

```
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```

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*
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Version 2.1, February 1999

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1.735 loud-rejection 1.2.1

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1.736 Iru-cache 2.7.3

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1.737 mail 1.4

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 */

/*
 * @(#)IllegalWriteException.java 1.5 05/08/29
 *
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 */

package javax.mail;

/**
 * The exception thrown when a write is attempted on a read-only attribute
 * of any Messaging object.
 *
 * @author John Mani
 */

public
class IllegalWriteException extends MessagingException {

    private static final long serialVersionUID = 3974370223328268013L;

    /**
     * Constructs a IllegalWriteException with no detail message.
     */
}
```

```

*/
public IllegalWriteException() {
super();
}

/**
 * Constructs a IllegalWriteException with the specified detail message.
 * @param s the detail message
 */
public IllegalWriteException(String s) {
super(s);
}
}

```

1.738 mailx 12.4 :8.el6_6

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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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*/
```

```
=====  
/* md5.h and md5.c are derived from RFC 1321:
```

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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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Appendix -- Sample Code

=====
Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimertools/cmsutil.c. Therefore:

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1.739 main-bower-files 2.11.1

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1.766 mime4j 0.7.2

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*/

```
package io.netty.util.internal.chmv8;
```

```
import java.util.concurrent.RecursiveAction;
```

```
/**
```

```
* A {@link ForkJoinTask} with a completion action performed when
```

```
* triggered and there are no remaining pending actions.
```

```
* CountedCompleters are in general more robust in the
```

```
* presence of subtask stalls and blockage than are other forms of
```

```
* ForkJoinTasks, but are less intuitive to program. Uses of
```

```
* CountedCompleter are similar to those of other completion based
```

```
* components (such as {@link java.nio.channels.CompletionHandler})
```

```
* except that multiple pending completions may be necessary
```

```
* to trigger the completion action {@link #onCompletion(CountedCompleter)},
```

```
* not just one.
```

```
* Unless initialized otherwise, the {@linkplain #getPendingCount pending
```

```
* count} starts at zero, but may be (atomically) changed using
```

```
* methods {@link #setPendingCount}, {@link #addToPendingCount}, and
```

```
* {@link #compareAndSetPendingCount}. Upon invocation of {@link
```

```
* #tryComplete}, if the pending action count is nonzero, it is
```

```
* decremented; otherwise, the completion action is performed, and if
```

```
* this completer itself has a completer, the process is continued
```

```
* with its completer. As is the case with related synchronization
```

```
* components such as {@link java.util.concurrent.Phaser Phaser} and
```

```
* {@link java.util.concurrent.Semaphore Semaphore}, these methods
```

```
* affect only internal counts; they do not establish any further
```

```
* internal bookkeeping. In particular, the identities of pending
```

```
* tasks are not maintained. As illustrated below, you can create
```

```
* subclasses that do record some or all pending tasks or their
```

```
* results when needed. As illustrated below, utility methods
```

```
* supporting customization of completion traversals are also
```

```
* provided. However, because CountedCompleters provide only basic
```

```
* synchronization mechanisms, it may be useful to create further
```

```
* abstract subclasses that maintain linkages, fields, and additional
```

```
* support methods appropriate for a set of related usages.
```

```
*
```

```
* 

A concrete CountedCompleter class must define method {@link


```

```
* #compute}, that should in most cases (as illustrated below), invoke
```

```
* {@code tryComplete()} once before returning. The class may also
```

```
* optionally override method {@link #onCompletion(CountedCompleter)}
```

```
* to perform an action upon normal completion, and method
```

```
* {@link #onExceptionalCompletion(Throwable, CountedCompleter)} to
```

```
* perform an action upon any exception.
```

```
*
```

* `CountedCompleters` most often do not bear results, in which case
* they are normally declared as `{ @code CountedCompleter<Void> }`, and
* will always return `{ @code null }` as a result value. In other cases,
* you should override method `{ @link #getRawResult }` to provide a
* result from `{ @code join(), invoke() }`, and related methods. In
* general, this method should return the value of a field (or a
* function of one or more fields) of the `CountedCompleter` object that
* holds the result upon completion. Method `{ @link #setRawResult }` by
* default plays no role in `CountedCompleters`. It is possible, but
* rarely applicable, to override this method to maintain other
* objects or fields holding result data.

*
* `CountedCompleter` that does not itself have a completer (i.e.,
* one for which `{ @link #getCompleter }` returns `{ @code null }`) can be
* used as a regular `ForkJoinTask` with this added functionality.
* However, any completer that in turn has another completer serves
* only as an internal helper for other computations, so its own task
* status (as reported in methods such as `{ @link ForkJoinTask#isDone }`)
* is arbitrary; this status changes only upon explicit invocations of
* `{ @link #complete }`, `{ @link ForkJoinTask#cancel }`,
* `{ @link ForkJoinTask#completeExceptionally(Throwable) }` or upon
* exceptional completion of method `{ @code compute }`. Upon any
* exceptional completion, the exception may be relayed to a task's
* completer (and its completer, and so on), if one exists and it has
* not otherwise already completed. Similarly, cancelling an internal
* `CountedCompleter` has only a local effect on that completer, so is
* not often useful.

*
* **Sample Usages.**

* **Parallel recursive decomposition.** `CountedCompleters` may
* be arranged in trees similar to those often used with `{ @link`
* `RecursiveAction`s, although the constructions involved in setting
* them up typically vary. Here, the completer of each task is its
* parent in the computation tree. Even though they entail a bit more
* bookkeeping, `CountedCompleters` may be better choices when applying
* a possibly time-consuming operation (that cannot be further
* subdivided) to each element of an array or collection; especially
* when the operation takes a significantly different amount of time
* to complete for some elements than others, either because of
* intrinsic variation (for example I/O) or auxiliary effects such as
* garbage collection. Because `CountedCompleters` provide their own
* continuations, other threads need not block waiting to perform
* them.

*
* For example, here is an initial version of a class that uses
* divide-by-two recursive decomposition to divide work into single
* pieces (leaf tasks). Even when work is split into individual calls,

- * tree-based techniques are usually preferable to directly forking
- * leaf tasks, because they reduce inter-thread communication and
- * improve load balancing. In the recursive case, the second of each
- * pair of subtasks to finish triggers completion of its parent
- * (because no result combination is performed, the default no-op
- * implementation of method { @code onComplete } is not overridden).
- * A static utility method sets up the base task and invokes it
- * (here, implicitly using the { @link ForkJoinPool#commonPool()}).
- *
- * <pre> { @code
- * class MyOperation<E> { void apply(E e) { ... } }
- *
- * class ForEach<E> extends CountedCompleter<Void> {
- *
- * public static <E> void forEach(E[] array, MyOperation<E> op) {
- * new ForEach<E>(null, array, op, 0, array.length).invoke();
- * }
- *
- * final E[] array; final MyOperation<E> op; final int lo, hi;
- * ForEach(CountedCompleter<?> p, E[] array, MyOperation<E> op, int lo, int hi) {
- * super(p);
- * this.array = array; this.op = op; this.lo = lo; this.hi = hi;
- * }
- *
- * public void compute() { // version 1
- * if (hi - lo >= 2) {
- * int mid = (lo + hi) >>> 1;
- * setPendingCount(2); // must set pending count before fork
- * new ForEach(this, array, op, mid, hi).fork(); // right child
- * new ForEach(this, array, op, lo, mid).fork(); // left child
- * }
- * else if (hi > lo)
- * op.apply(array[lo]);
- * tryComplete();
- * }
- * }}</pre>

- *
- * This design can be improved by noticing that in the recursive case,
- * the task has nothing to do after forking its right task, so can
- * directly invoke its left task before returning. (This is an analog
- * of tail recursion removal.) Also, because the task returns upon
- * executing its left task (rather than falling through to invoke
- * { @code tryComplete }) the pending count is set to one:
- *

- * <pre> { @code
- * class ForEach<E> ...
- * public void compute() { // version 2
- * if (hi - lo >= 2) {

```

*   int mid = (lo + hi) >>> 1;
*   setPendingCount(1); // only one pending
*   new ForEach(this, array, op, mid, hi).fork(); // right child
*   new ForEach(this, array, op, lo, mid).compute(); // direct invoke
*   }
*   else {
*       if (hi > lo)
*           op.apply(array[lo]);
*       tryComplete();
*   }
* }
* }</pre>

```

* As a further improvement, notice that the left task need not even exist.
 * Instead of creating a new one, we can iterate using the original task,
 * and add a pending count for each fork. Additionally, because no task
 * in this tree implements an { @link #onCompletion(CountedCompleter) } method,
 * { @code tryComplete() } can be replaced with { @link #propagateCompletion }.

```

* <pre> { @code
* class ForEach<E> ...
*   public void compute() { // version 3
*       int l = lo, h = hi;
*       while (h - l >= 2) {
*           int mid = (l + h) >>> 1;
*           addToPendingCount(1);
*           new ForEach(this, array, op, mid, h).fork(); // right child
*           h = mid;
*       }
*       if (h > l)
*           op.apply(array[l]);
*       propagateCompletion();
*   }
* }</pre>

```

* Additional improvements of such classes might entail precomputing
 * pending counts so that they can be established in constructors,
 * specializing classes for leaf steps, subdividing by say, four,
 * instead of two per iteration, and using an adaptive threshold
 * instead of always subdividing down to single elements.

* <p>Searching. A tree of CountedCompleters can search for a
 * value or property in different parts of a data structure, and
 * report a result in an { @link
 * java.util.concurrent.atomic.AtomicReference AtomicReference } as
 * soon as one is found. The others can poll the result to avoid
 * unnecessary work. (You could additionally { @linkplain #cancel
 * cancel } other tasks, but it is usually simpler and more efficient

```

* to just let them notice that the result is set and if so skip
* further processing.) Illustrating again with an array using full
* partitioning (again, in practice, leaf tasks will almost always
* process more than one element):
*
* <pre> { @code
* class Searcher<E> extends CountedCompleter<E> {
*   final E[] array; final AtomicReference<E> result; final int lo, hi;
*   Searcher(CountedCompleter<?> p, E[] array, AtomicReference<E> result, int lo, int hi) {
*     super(p);
*     this.array = array; this.result = result; this.lo = lo; this.hi = hi;
*   }
*   public E getRawResult() { return result.get(); }
*   public void compute() { // similar to ForEach version 3
*     int l = lo, h = hi;
*     while (result.get() == null && h >= l) {
*       if (h - l >= 2) {
*         int mid = (l + h) >>> 1;
*         addToPendingCount(1);
*         new Searcher(this, array, result, mid, h).fork();
*         h = mid;
*       }
*       else {
*         E x = array[l];
*         if (matches(x) && result.compareAndSet(null, x))
*           quietlyCompleteRoot(); // root task is now joinable
*         break;
*       }
*     }
*     tryComplete(); // normally complete whether or not found
*   }
*   boolean matches(E e) { ... } // return true if found
* }
* }</pre>

```

* In this example, as well as others in which tasks have no other
* effects except to compareAndSet a common result, the trailing
* unconditional invocation of { @code tryComplete } could be made
* conditional ({ @code if (result.get() == null) tryComplete();})
* because no further bookkeeping is required to manage completions
* once the root task completes.

* <p>Recording subtasks. CountedCompleter tasks that combine
* results of multiple subtasks usually need to access these results
* in method { @link #onCompletion(CountedCompleter)}. As illustrated in the following

```

* class (that performs a simplified form of map-reduce where mappings
* and reductions are all of type {@code E}), one way to do this in
* divide and conquer designs is to have each subtask record its
* sibling, so that it can be accessed in method {@code onCompletion}.
* This technique applies to reductions in which the order of
* combining left and right results does not matter; ordered
* reductions require explicit left/right designations. Variants of
* other streamlinings seen in the above examples may also apply.
*
* <pre> {@code
* class MyMapper<E> { E apply(E v) { ... } }
* class MyReducer<E> { E apply(E x, E y) { ... } }
* class MapReducer<E> extends CountedCompleter<E> {
*   final E[] array; final MyMapper<E> mapper;
*   final MyReducer<E> reducer; final int lo, hi;
*   MapReducer<E> sibling;
*   E result;
*   MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
*     MyReducer<E> reducer, int lo, int hi) {
*     super(p);
*     this.array = array; this.mapper = mapper;
*     this.reducer = reducer; this.lo = lo; this.hi = hi;
*   }
*   public void compute() {
*     if (hi - lo >= 2) {
*       int mid = (lo + hi) >>> 1;
*       MapReducer<E> left = new MapReducer(this, array, mapper, reducer, lo, mid);
*       MapReducer<E> right = new MapReducer(this, array, mapper, reducer, mid, hi);
*       left.sibling = right;
*       right.sibling = left;
*       setPendingCount(1); // only right is pending
*       right.fork();
*       left.compute(); // directly execute left
*     }
*     else {
*       if (hi > lo)
*         result = mapper.apply(array[lo]);
*       tryComplete();
*     }
*   }
*   public void onCompletion(CountedCompleter<?> caller) {
*     if (caller != this) {
*       MapReducer<E> child = (MapReducer<E>)caller;
*       MapReducer<E> sib = child.sibling;
*       if (sib == null || sib.result == null)
*         result = child.result;
*       else
*         result = reducer.apply(child.result, sib.result);

```

```

* }
* }
* public E getRawResult() { return result; }
*
* public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*     return new MapReducer<E>(null, array, mapper, reducer,
*         0, array.length).invoke();
* }
* }}</pre>

```

* Here, method { @code onCompletion } takes a form common to many completion designs that combine results. This callback-style method is triggered once per task, in either of the two different contexts in which the pending count is, or becomes, zero: (1) by a task itself, if its pending count is zero upon invocation of { @code tryComplete }, or (2) by any of its subtasks when they complete and decrement the pending count to zero. The { @code caller } argument distinguishes cases. Most often, when the caller is { @code this }, no action is necessary. Otherwise the caller argument can be used (usually via a cast) to supply a value (and/or links to other values) to be combined. Assuming proper use of pending counts, the actions inside { @code onCompletion } occur (once) upon completion of a task and its subtasks. No additional synchronization is required within this method to ensure thread safety of accesses to fields of this task or other completed tasks.

* <p>Completion Traversals. If using { @code onCompletion } to process completions is inapplicable or inconvenient, you can use methods { @link #firstComplete } and { @link #nextComplete } to create custom traversals. For example, to define a MapReducer that only splits out right-hand tasks in the form of the third ForEach example, the completions must cooperatively reduce along unexhausted subtask links, which can be done as follows:

```

* <pre> { @code
* class MapReducer<E> extends CountedCompleter<E> { // version 2
*     final E[] array; final MyMapper<E> mapper;
*     final MyReducer<E> reducer; final int lo, hi;
*     MapReducer<E> forks, next; // record subtask forks in list
*     E result;
*     MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
*         MyReducer<E> reducer, int lo, int hi, MapReducer<E> next) {
*         super(p);
*         this.array = array; this.mapper = mapper;
*         this.reducer = reducer; this.lo = lo; this.hi = hi;
*         this.next = next;
*     }
*     public void compute() {

```

```

*   int l = lo, h = hi;
*   while (h - l >= 2) {
*       int mid = (l + h) >>> 1;
*       addToPendingCount(1);
*       (forks = new MapReducer(this, array, mapper, reducer, mid, h, forks)).fork();
*       h = mid;
*   }
*   if (h > 1)
*       result = mapper.apply(array[l]);
*   // process completions by reducing along and advancing subtask links
*   for (CountedCompleter<?> c = firstComplete(); c != null; c = c.nextComplete()) {
*       for (MapReducer t = (MapReducer)c, s = t.forks; s != null; s = t.forks = s.next)
*           t.result = reducer.apply(t.result, s.result);
*   }
* }
* public E getRawResult() { return result; }
*
* public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*     return new MapReducer<E>(null, array, mapper, reducer,
*         0, array.length, null).invoke();
* }
* }</pre>

```

Triggers. Some CountedCompleters are themselves never forked, but instead serve as bits of plumbing in other designs; including those in which the completion of one or more async tasks triggers another async task. For example:

```

* <pre> { @code
* class HeaderBuilder extends CountedCompleter<...> { ... }
* class BodyBuilder extends CountedCompleter<...> { ... }
* class PacketSender extends CountedCompleter<...> {
*     PacketSender(...) { super(null, 1); ... } // trigger on second completion
*     public void compute() { } // never called
*     public void onCompletion(CountedCompleter<?> caller) { sendPacket(); }
* }
* // sample use:
* PacketSender p = new PacketSender();
* new HeaderBuilder(p, ...).fork();
* new BodyBuilder(p, ...).fork();
* }</pre>

```

* @since 1.8

* @author Doug Lea

*/

@SuppressWarnings("all")

```

public abstract class CountedCompleter<T> extends ForkJoinTask<T> {
    private static final long serialVersionUID = 5232453752276485070L;

```

```

/** This task's completer, or null if none */
final CountedCompleter<?> completer;
/** The number of pending tasks until completion */
volatile int pending;

/**
 * Creates a new CountedCompleter with the given completer
 * and initial pending count.
 *
 * @param completer this task's completer, or { @code null } if none
 * @param initialPendingCount the initial pending count
 */
protected CountedCompleter(CountedCompleter<?> completer,
                             int initialPendingCount) {
    this.completer = completer;
    this.pending = initialPendingCount;
}

/**
 * Creates a new CountedCompleter with the given completer
 * and an initial pending count of zero.
 *
 * @param completer this task's completer, or { @code null } if none
 */
protected CountedCompleter(CountedCompleter<?> completer) {
    this.completer = completer;
}

/**
 * Creates a new CountedCompleter with no completer
 * and an initial pending count of zero.
 */
protected CountedCompleter() {
    this.completer = null;
}

/**
 * The main computation performed by this task.
 */
public abstract void compute();

/**
 * Performs an action when method { @link #tryComplete } is invoked
 * and the pending count is zero, or when the unconditional
 * method { @link #complete } is invoked. By default, this method
 * does nothing. You can distinguish cases by checking the
 * identity of the given caller argument. If not equal to { @code

```

```

* this}, then it is typically a subtask that may contain results
* (and/or links to other results) to combine.
*
* @param caller the task invoking this method (which may
* be this task itself)
*/
public void onCompletion(CountedCompleter<?> caller) {
}

/**
* Performs an action when method { @link
* #completeExceptionally(Throwable)} is invoked or method { @link
* #compute} throws an exception, and this task has not already
* otherwise completed normally. On entry to this method, this task
* { @link ForkJoinTask#isCompletedAbnormally}. The return value
* of this method controls further propagation: If { @code true}
* and this task has a completer that has not completed, then that
* completer is also completed exceptionally, with the same
* exception as this completer. The default implementation of
* this method does nothing except return { @code true}.
*
* @param ex the exception
* @param caller the task invoking this method (which may
* be this task itself)
* @return { @code true} if this exception should be propagated to this
* task's completer, if one exists
*/
public boolean onExceptionalCompletion(Throwable ex, CountedCompleter<?> caller) {
    return true;
}

/**
* Returns the completer established in this task's constructor,
* or { @code null} if none.
*
* @return the completer
*/
public final CountedCompleter<?> getCompleter() {
    return completer;
}

/**
* Returns the current pending count.
*
* @return the current pending count
*/
public final int getPendingCount() {
    return pending;
}

```

```

}

/**
 * Sets the pending count to the given value.
 *
 * @param count the count
 */
public final void setPendingCount(int count) {
    pending = count;
}

/**
 * Adds (atomically) the given value to the pending count.
 *
 * @param delta the value to add
 */
public final void addToPendingCount(int delta) {
    int c;
    do {} while (!U.compareAndSwapInt(this, PENDING, c = pending, c+delta));
}

/**
 * Sets (atomically) the pending count to the given count only if
 * it currently holds the given expected value.
 *
 * @param expected the expected value
 * @param count the new value
 * @return {@code true} if successful
 */
public final boolean compareAndSetPendingCount(int expected, int count) {
    return U.compareAndSwapInt(this, PENDING, expected, count);
}

/**
 * If the pending count is nonzero, (atomically) decrements it.
 *
 * @return the initial (undecremented) pending count holding on entry
 * to this method
 */
public final int decrementPendingCountUnlessZero() {
    int c;
    do {} while ((c = pending) != 0 &&
        !U.compareAndSwapInt(this, PENDING, c, c - 1));
    return c;
}

/**
 * Returns the root of the current computation; i.e., this

```

```

* task if it has no completer, else its completer's root.
*
* @return the root of the current computation
*/
public final CountedCompleter<?> getRoot() {
    CountedCompleter<?> a = this, p;
    while ((p = a.completer) != null)
        a = p;
    return a;
}

/**
* If the pending count is nonzero, decrements the count;
* otherwise invokes {@link #onCompletion(CountedCompleter)}
* and then similarly tries to complete this task's completer,
* if one exists, else marks this task as complete.
*/
public final void tryComplete() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            a.onCompletion(s);
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        }
        else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
}

/**
* Equivalent to {@link #tryComplete} but does not invoke {@link
* #onCompletion(CountedCompleter)} along the completion path:
* If the pending count is nonzero, decrements the count;
* otherwise, similarly tries to complete this task's completer, if
* one exists, else marks this task as complete. This method may be
* useful in cases where {@code onCompletion} should not, or need
* not, be invoked for each completer in a computation.
*/
public final void propagateCompletion() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        }
    }
}

```

```

    }
    }
    else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
        return;
    }
}

/**
 * Regardless of pending count, invokes
 * {@link #onCompletion(CountedCompleter)}, marks this task as
 * complete and further triggers {@link #tryComplete} on this
 * task's completer, if one exists. The given rawResult is
 * used as an argument to {@link #setRawResult} before invoking
 * {@link #onCompletion(CountedCompleter)} or marking this task
 * as complete; its value is meaningful only for classes
 * overriding {@code setRawResult}. This method does not modify
 * the pending count.
 *
 * <p>This method may be useful when forcing completion as soon as
 * any one (versus all) of several subtask results are obtained.
 * However, in the common (and recommended) case in which {@code
 * setRawResult} is not overridden, this effect can be obtained
 * more simply using {@code quietlyCompleteRoot();}.
 *
 * @param rawResult the raw result
 */
public void complete(T rawResult) {
    CountedCompleter<?> p;
    setRawResult(rawResult);
    onCompletion(this);
    quietlyComplete();
    if ((p = completer) != null)
        p.tryComplete();
}

```

```

/**
 * If this task's pending count is zero, returns this task;
 * otherwise decrements its pending count and returns {@code
 * null}. This method is designed to be used with {@link
 * #nextComplete} in completion traversal loops.
 *
 * @return this task, if pending count was zero, else {@code null}
 */
public final CountedCompleter<?> firstComplete() {
    for (int c;;) {
        if ((c = pending) == 0)
            return this;
    }
}

```

```

        else if (U.compareAndSwapInt(this, PENDING, c, c - 1))
            return null;
    }
}

/**
 * If this task does not have a completer, invokes {@link
 * ForkJoinTask#quietlyComplete} and returns {@code null}. Or, if
 * the completer's pending count is non-zero, decrements that
 * pending count and returns {@code null}. Otherwise, returns the
 * completer. This method can be used as part of a completion
 * traversal loop for homogeneous task hierarchies:
 *
 * <pre> { @code
 * for (CountedCompleter<?> c = firstComplete();
 *     c != null;
 *     c = c.nextComplete()) {
 * // ... process c ...
 * }}</pre>
 *
 * @return the completer, or {@code null} if none
 */
public final CountedCompleter<?> nextComplete() {
    CountedCompleter<?> p;
    if ((p = completer) != null)
        return p.firstComplete();
    else {
        quietlyComplete();
        return null;
    }
}

/**
 * Equivalent to {@code getRoot().quietlyComplete()}.
 */
public final void quietlyCompleteRoot() {
    for (CountedCompleter<?> a = this, p;;) {
        if ((p = a.completer) == null) {
            a.quietlyComplete();
            return;
        }
        a = p;
    }
}

/**
 * Supports ForkJoinTask exception propagation.
 */

```

```

void internalPropagateException(Throwable ex) {
    CountedCompleter<?> a = this, s = a;
    while (a.onExceptionalCompletion(ex, s) &&
        (a = (s = a).completer) != null && a.status >= 0 &&
        a.recordExceptionalCompletion(ex) == EXCEPTIONAL)
        ;
}

/**
 * Implements execution conventions for CountedCompleters.
 */
protected final boolean exec() {
    compute();
    return false;
}

/**
 * Returns the result of the computation. By default
 * returns { @code null }, which is appropriate for { @code Void }
 * actions, but in other cases should be overridden, almost
 * always to return a field or function of a field that
 * holds the result upon completion.
 *
 * @return the result of the computation
 */
public T getRawResult() { return null; }

/**
 * A method that result-bearing CountedCompleters may optionally
 * use to help maintain result data. By default, does nothing.
 * Overrides are not recommended. However, if this method is
 * overridden to update existing objects or fields, then it must
 * in general be defined to be thread-safe.
 */
protected void setRawResult(T t) { }

// Unsafe mechanics
private static final sun.misc.Unsafe U;
private static final long PENDING;
static {
    try {
        U = getUnsafe();
        PENDING = U.objectFieldOffset
            (CountedCompleter.class.getDeclaredField("pending"));
    } catch (Exception e) {
        throw new Error(e);
    }
}

```

```

/**
 * Returns a sun.misc.Unsafe. Suitable for use in a 3rd party package.
 * Replace with a simple call to Unsafe.getUnsafe when integrating
 * into a jdk.
 *
 * @return a sun.misc.Unsafe
 */
private static sun.misc.Unsafe getUnsafe() {
    try {
        return sun.misc.Unsafe.getUnsafe();
    } catch (SecurityException tryReflectionInstead) {}
    try {
        return java.security.AccessController.doPrivileged
            (new java.security.PrivilegedExceptionAction<sun.misc.Unsafe>() {
                public sun.misc.Unsafe run() throws Exception {
                    Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
                    for (java.lang.reflect.Field f : k.getDeclaredFields()) {
                        f.setAccessible(true);
                        Object x = f.get(null);
                        if (k.isInstance(x))
                            return k.cast(x);
                    }
                    throw new NoSuchFieldError("the Unsafe");
                }
            });
    } catch (java.security.PrivilegedActionException e) {
        throw new RuntimeException("Could not initialize intrinsics",
            e.getCause());
    }
}
}
}
/**
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 */

package io.netty.util.concurrent;

```

```

import java.util.concurrent.TimeUnit;

/**
 * A skeletal {@link Future} implementation which represents a {@link Future} which has been completed already.
 */
public abstract class CompleteFuture<V> extends AbstractFuture<V> {

    private final EventExecutor executor;

    /**
     * Creates a new instance.
     *
     * @param executor the {@link EventExecutor} associated with this future
     */
    protected CompleteFuture(EventExecutor executor) {
        this.executor = executor;
    }

    /**
     * Return the {@link EventExecutor} which is used by this {@link CompleteFuture}.
     */
    protected EventExecutor executor() {
        return executor;
    }

    @Override
    public Future<V> addListener(GenericFutureListener<? extends Future<? super V>> listener) {
        if (listener == null) {
            throw new NullPointerException("listener");
        }
        DefaultPromise.notifyListener(executor(), this, listener);
        return this;
    }

    @Override
    public Future<V> addListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
        if (listeners == null) {
            throw new NullPointerException("listeners");
        }
        for (GenericFutureListener<? extends Future<? super V>> l: listeners) {
            if (l == null) {
                break;
            }
            DefaultPromise.notifyListener(executor(), this, l);
        }
        return this;
    }
}

```

```
@Override
public Future<V> removeListener(GenericFutureListener<? extends Future<? super V>> listener) {
    // NOOP
    return this;
}
```

```
@Override
public Future<V> removeListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
    // NOOP
    return this;
}
```

```
@Override
public Future<V> await() throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return this;
}
```

```
@Override
public boolean await(long timeout, TimeUnit unit) throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return true;
}
```

```
@Override
public Future<V> sync() throws InterruptedException {
    return this;
}
```

```
@Override
public Future<V> syncUninterruptibly() {
    return this;
}
```

```
@Override
public boolean await(long timeoutMillis) throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return true;
}
```

```
@Override
```

```

public Future<V> awaitUninterruptibly() {
    return this;
}

@Override
public boolean awaitUninterruptibly(long timeout, TimeUnit unit) {
    return true;
}

@Override
public boolean awaitUninterruptibly(long timeoutMillis) {
    return true;
}

@Override
public boolean isDone() {
    return true;
}

@Override
public boolean isCancelled() {
    return false;
}

@Override
public boolean isCancelled() {
    return false;
}

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return false;
}
}
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```

```

*/

package io.netty.util;

/**
 * An {@link IllegalStateException} which is raised when a user attempts to access a {@link ReferenceCounted}
 * whose
 * reference count has been decreased to 0 (and consequently freed).
 */
public class IllegalReferenceCountException extends IllegalStateException {

    private static final long serialVersionUID = -2507492394288153468L;

    public IllegalReferenceCountException() { }

    public IllegalReferenceCountException(int refCnt) {
        this("refCnt: " + refCnt);
    }

    public IllegalReferenceCountException(int refCnt, int increment) {
        this("refCnt: " + refCnt + ", " + (increment > 0? "increment: " + increment : "decrement: " + -increment));
    }

    public IllegalReferenceCountException(String message) {
        super(message);
    }

    public IllegalReferenceCountException(String message, Throwable cause) {
        super(message, cause);
    }

    public IllegalReferenceCountException(Throwable cause) {
        super(cause);
    }
}

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```

```

* under the License.
*/
package io.netty.channel;

import io.netty.util.ReferenceCountUtil;
import io.netty.util.internal.TypeParameterMatcher;

/**
 * {@link ChannelInboundHandlerAdapter} which allows to explicit only handle a specific type of messages.
 *
 * For example here is an implementation which only handle {@link String} messages.
 *
 * <pre>
 * public class StringHandler extends
 *     {@link SimpleChannelInboundHandler}&lt;{@link String}&gt; {
 *
 *     {@code @Override}
 *     protected void channelRead0({@link ChannelHandlerContext} ctx, {@link String} message)
 *         throws {@link Exception} {
 *         System.out.println(message);
 *     }
 * }
 * </pre>
 *
 * Be aware that depending of the constructor parameters it will release all handled messages.
 *
 * <h3>Forward compatibility notice</h3>
 * <p>
 * Please keep in mind that {@link #channelRead0(ChannelHandlerContext, Object)} will be renamed to
 * {@code messageReceived(ChannelHandlerContext, I)} in 5.0.
 * </p>
 */
public abstract class SimpleChannelInboundHandler<I> extends ChannelInboundHandlerAdapter {

    private final TypeParameterMatcher matcher;
    private final boolean autoRelease;

    /**
     * @see {@link #SimpleChannelInboundHandler(boolean)} with {@code true} as boolean parameter.
     */
    protected SimpleChannelInboundHandler() {
        this(true);
    }

    /**
     * Create a new instance which will try to detect the types to match out of the type parameter of the class.
     *
     * @param autoRelease {@code true} if handled messages should be released automatically by pass them to

```

```

*          {@link ReferenceCountUtil#release(Object)}.
*/
protected SimpleChannelInboundHandler(boolean autoRelease) {
    matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");
    this.autoRelease = autoRelease;
}

/**
 * @see {@link #SimpleChannelInboundHandler(Class, boolean)} with {@code true} as boolean value.
 */
protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType) {
    this(inboundMessageType, true);
}

/**
 * Create a new instance
 *
 * @param inboundMessageType The type of messages to match
 * @param autoRelease       {@code true} if handled messages should be released automatically by pass them to
 *                          {@link ReferenceCountUtil#release(Object)}.
 */
protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType, boolean autoRelease) {
    matcher = TypeParameterMatcher.get(inboundMessageType);
    this.autoRelease = autoRelease;
}

/**
 * Returns {@code true} if the given message should be handled. If {@code false} it will be passed to the next
 * {@link ChannelInboundHandler} in the {@link ChannelPipeline}.
 */
public boolean acceptInboundMessage(Object msg) throws Exception {
    return matcher.match(msg);
}

@Override
public void channelRead(ChannelHandlerContext ctx, Object msg) throws Exception {
    boolean release = true;
    try {
        if (acceptInboundMessage(msg)) {
            @SuppressWarnings("unchecked")
            I imsg = (I) msg;
            channelRead0(ctx, imsg);
        } else {
            release = false;
            ctx.fireChannelRead(msg);
        }
    } finally {
        if (autoRelease && release) {

```

```

        ReferenceCountUtil.release(msg);
    }
}

/**
 * <strong>Please keep in mind that this method will be renamed to
 * {@code messageReceived(ChannelHandlerContext, I)} in 5.0.</strong>
 *
 * Is called for each message of type {@link I}.
 *
 * @param ctx      the {@link ChannelHandlerContext} which this {@link SimpleChannelInboundHandler}
 *                 belongs to
 * @param msg      the message to handle
 * @throws Exception is thrown if an error occurred
 */
protected abstract void channelRead0(ChannelHandlerContext ctx, I msg) throws Exception;
}
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 */
package io.netty.channel;

import io.netty.util.concurrent.CompleteFuture;
import io.netty.util.concurrent.EventExecutor;
import io.netty.util.concurrent.Future;
import io.netty.util.concurrent.GenericFutureListener;

/**
 * A skeletal {@link ChannelFuture} implementation which represents a
 * {@link ChannelFuture} which has been completed already.
 */
abstract class CompleteChannelFuture extends CompleteFuture<Void> implements ChannelFuture {

    private final Channel channel;

```

```

/**
 * Creates a new instance.
 *
 * @param channel the {@link Channel} associated with this future
 */
protected CompleteChannelFuture(Channel channel, EventExecutor executor) {
    super(executor);
    if (channel == null) {
        throw new NullPointerException("channel");
    }
    this.channel = channel;
}

@Override
protected EventExecutor executor() {
    EventExecutor e = super.executor();
    if (e == null) {
        return channel().eventLoop();
    } else {
        return e;
    }
}

@Override
public ChannelFuture addListener(GenericFutureListener<? extends Future<? super Void>> listener) {
    super.addListener(listener);
    return this;
}

@Override
public ChannelFuture addListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.addListeners(listeners);
    return this;
}

@Override
public ChannelFuture removeListener(GenericFutureListener<? extends Future<? super Void>> listener) {
    super.removeListener(listener);
    return this;
}

@Override
public ChannelFuture removeListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.removeListeners(listeners);
    return this;
}

@Override

```

```

public ChannelFuture syncUninterruptibly() {
    return this;
}

@Override
public ChannelFuture sync() throws InterruptedException {
    return this;
}

@Override
public ChannelFuture await() throws InterruptedException {
    return this;
}

@Override
public ChannelFuture awaitUninterruptibly() {
    return this;
}

@Override
public Channel channel() {
    return channel;
}

@Override
public Void getNow() {
    return null;
}
}
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 */
package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;

```

```

import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which simply forwards all data access requests to its
 * parent. It is recommended to use {@link ByteBuffer#duplicate()} instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuffer extends AbstractByteBuffer {

    private final ByteBuffer buffer;

    public DuplicatedByteBuffer(ByteBuffer buffer) {
        super(buffer.capacity());

        if (buffer instanceof DuplicatedByteBuffer) {
            this.buffer = ((DuplicatedByteBuffer) buffer).buffer;
        } else {
            this.buffer = buffer;
        }

        setIndex(buffer.readerIndex(), buffer.writerIndex());
    }

    @Override
    public ByteBuffer unwrap() {
        return buffer;
    }

    @Override
    public ByteBufferAllocator alloc() {
        return buffer.alloc();
    }

    @Override
    public ByteOrder order() {
        return buffer.order();
    }

    @Override
    public boolean isDirect() {
        return buffer.isDirect();
    }
}

```

```

@Override
public int capacity() {
    return buffer.capacity();
}

@Override
public ByteBuf capacity(int newCapacity) {
    buffer.capacity(newCapacity);
    return this;
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset();
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress();
}

@Override
public byte getByte(int index) {
    return _getByte(index);
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index);
}

@Override
public short getShort(int index) {

```

```

    return _getShort(index);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
public int getInt(int index) {
    return _getInt(index);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index);
}

@Override
public long getLong(int index) {
    return _getLong(index);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index);
}

@Override
public ByteBuffer copy(int index, int length) {
    return buffer.copy(index, length);
}

@Override
public ByteBuffer slice(int index, int length) {
    return buffer.slice(index, length);
}

```

```
@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}
```

```
@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}
```

```
@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    buffer.getBytes(index, dst);
    return this;
}
```

```
@Override
public ByteBuf setByte(int index, int value) {
    _setByte(index, value);
    return this;
}
```

```
@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index, value);
}
```

```
@Override
public ByteBuf setShort(int index, int value) {
    _setShort(index, value);
    return this;
}
```

```
@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index, value);
}
```

```
@Override
public ByteBuf setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}
```

```
@Override
protected void _setMedium(int index, int value) {
```

```

        buffer.setMedium(index, value);
    }

    @Override
    public ByteBuf setInt(int index, int value) {
        _setInt(index, value);
        return this;
    }

    @Override
    protected void _setInt(int index, int value) {
        buffer.setInt(index, value);
    }

    @Override
    public ByteBuf setLong(int index, long value) {
        _setLong(index, value);
        return this;
    }

    @Override
    protected void _setLong(int index, long value) {
        buffer.setLong(index, value);
    }

    @Override
    public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
        buffer.setBytes(index, src, srcIndex, length);
        return this;
    }

    @Override
    public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
        buffer.setBytes(index, src, srcIndex, length);
        return this;
    }

    @Override
    public ByteBuf setBytes(int index, ByteBuffer src) {
        buffer.setBytes(index, src);
        return this;
    }

    @Override
    public ByteBuf getBytes(int index, OutputStream out, int length)
        throws IOException {
        buffer.getBytes(index, out, length);
        return this;
    }

```

```

}

@Override
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException {
    return buffer.getBytes(index, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int.nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    return buffer.nioBuffers(index, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByte(index, length, processor);
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByteDesc(index, length, processor);
}
}
/*
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 *

```

```

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*/

```

```
package io.netty.buffer;
```

```

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

```

```

/**
 * A derived buffer which exposes its parent's sub-region only. It is
 * recommended to use {@link ByteBuffer#slice()} and
 * {@link ByteBuffer#slice(int, int)} instead of calling the constructor
 * explicitly.
 */

```

```
public class SlicedByteBuffer extends AbstractDerivedByteBuffer {
```

```

    private final ByteBuffer buffer;
    private final int adjustment;
    private final int length;

```

```

    public SlicedByteBuffer(ByteBuffer buffer, int index, int length) {
        super(length);
        if (index < 0 || index > buffer.capacity() - length) {
            throw new IndexOutOfBoundsException(buffer.toString() + ".slice(" + index + ", " + length + ')');
        }
    }

```

```

    if (buffer instanceof SlicedByteBuffer) {
        this.buffer = ((SlicedByteBuffer) buffer).buffer;
        adjustment = ((SlicedByteBuffer) buffer).adjustment + index;
    } else if (buffer instanceof DuplicatedByteBuffer) {
        this.buffer = buffer.unwrap();
        adjustment = index;
    } else {

```

```

        this.buffer = buffer;
        adjustment = index;
    }
    this.length = length;

    writerIndex(length);
}

@Override
public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return length;
}

@Override
public ByteBuf capacity(int newCapacity) {
    throw new UnsupportedOperationException("sliced buffer");
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

```

```

@Override
public int arrayOffset() {
    return buffer.arrayOffset() + adjustment;
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress() + adjustment;
}

@Override
protected byte _getBytes(int index) {
    return buffer.getBytes(index + adjustment);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index + adjustment);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index + adjustment);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index + adjustment);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index + adjustment);
}

@Override
public ByteBuf duplicate() {
    ByteBuf duplicate = buffer.slice(adjustment, length);
    duplicate.setIndex(readerIndex(), writerIndex());
    return duplicate;
}

@Override

```

```

public ByteBuf copy(int index, int length) {
    checkIndex(index, length);
    return buffer.copy(index + adjustment, length);
}

@Override
public ByteBuf slice(int index, int length) {
    checkIndex(index, length);
    if (length == 0) {
        return Unpooled.EMPTY_BUFFER;
    }
    return buffer.slice(index + adjustment, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    checkIndex(index, dst.remaining());
    buffer.getBytes(index + adjustment, dst);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index + adjustment, value);
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index + adjustment, value);
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index + adjustment, value);
}

```

```

}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index + adjustment, value);
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index + adjustment, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    checkIndex(index, src.remaining());
    buffer.setBytes(index + adjustment, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
    checkIndex(index, length);
    return buffer.getBytes(index + adjustment, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length) throws IOException {

```

```

        checkIndex(index, length);
        return buffer.setBytes(index + adjustment, in, length);
    }

    @Override
    public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
        checkIndex(index, length);
        return buffer.setBytes(index + adjustment, in, length);
    }

    @Override
    public int.nioBufferCount() {
        return buffer.nioBufferCount();
    }

    @Override
    public ByteBuffer.nioBuffer(int index, int length) {
        checkIndex(index, length);
        return buffer.nioBuffer(index + adjustment, length);
    }

    @Override
    public ByteBuffer[].nioBuffers(int index, int length) {
        checkIndex(index, length);
        return buffer.nioBuffers(index + adjustment, length);
    }

    @Override
    public ByteBuffer.internalNioBuffer(int index, int length) {
        checkIndex(index, length);
        return nioBuffer(index, length);
    }

    @Override
    public int.forEachByte(int index, int length, ByteBufProcessor processor) {
        int ret = buffer.forEachByte(index + adjustment, length, processor);
        if (ret >= adjustment) {
            return ret - adjustment;
        } else {
            return -1;
        }
    }

    @Override
    public int.forEachByteDesc(int index, int length, ByteBufProcessor processor) {
        int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
        if (ret >= adjustment) {
            return ret - adjustment;
        }
    }

```

```

        } else {
            return -1;
        }
    }
}
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 */
package io.netty.handler.codec.marshalling;

import org.jboss.marshalling.ByteInput;

import java.io.IOException;

/**
 * {@link ByteInput} implementation which wraps another {@link ByteInput} and throws a {@link
 * TooBigObjectException}
 * if the read limit was reached.
 */
class LimitingByteInput implements ByteInput {

    // Use a static instance here to remove the overhead of fillStackTrace
    private static final TooBigObjectException EXCEPTION = new TooBigObjectException();

    private final ByteInput input;
    private final long limit;
    private long read;

    public LimitingByteInput(ByteInput input, long limit) {
        if (limit <= 0) {
            throw new IllegalArgumentException("The limit MUST be > 0");
        }
        this.input = input;
        this.limit = limit;
    }
}

```

```
@Override
public void close() throws IOException {
    // Nothing to do
}
```

```
@Override
public int available() throws IOException {
    return readable(input.available());
}
```

```
@Override
public int read() throws IOException {
    int readable = readable(1);
    if (readable > 0) {
        int b = input.read();
        read++;
        return b;
    } else {
        throw EXCEPTION;
    }
}
```

```
@Override
public int read(byte[] array) throws IOException {
    return read(array, 0, array.length);
}
```

```
@Override
public int read(byte[] array, int offset, int length) throws IOException {
    int readable = readable(length);
    if (readable > 0) {
        int i = input.read(array, offset, readable);
        read += i;
        return i;
    } else {
        throw EXCEPTION;
    }
}
```

```
@Override
public long skip(long bytes) throws IOException {
    int readable = readable((int) bytes);
    if (readable > 0) {
        long i = input.skip(readable);
        read += i;
        return i;
    } else {
        throw EXCEPTION;
    }
}
```

```

    }
}

private int readable(int length) {
    return (int) Math.min(length, limit - read);
}

/**
 * Exception that will get thrown if the {@link Object} is too big to unmarshal
 *
 */
static final class TooBigObjectException extends IOException {
    private static final long serialVersionUID = 1L;
}
}
/*
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 */

package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

/**
 * {@link MessageToMessageDecoder} which will take care of handle fragmented {@link SctpMessage}s, so
 * only <strong>complete</strong> {@link SctpMessage}s will be forwarded to the next
 * {@link ChannelInboundHandler}.

```

```

*/
public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {
    private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

    @Override
    protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
        final ByteBuf byteBuf = msg.content();
        final int protocolIdentifier = msg.protocolIdentifier();
        final int streamIdentifier = msg.streamIdentifier();
        final boolean isComplete = msg.isComplete();

        ByteBuf frag;
        if (fragments.containsKey(streamIdentifier)) {
            frag = fragments.remove(streamIdentifier);
        } else {
            frag = Unpooled.EMPTY_BUFFER;
        }

        if (isComplete && !frag.isReadable()) {
            //data chunk is not fragmented
            out.add(msg);
        } else if (!isComplete && frag.isReadable()) {
            //more message to complete
            fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
        } else if (isComplete && frag.isReadable()) {
            //last message to complete
            fragments.remove(streamIdentifier);
            SctpMessage assembledMsg = new SctpMessage(
                protocolIdentifier,
                streamIdentifier,
                Unpooled.wrappedBuffer(frag, byteBuf));
            out.add(assembledMsg);
        } else {
            //first incomplete message
            fragments.put(streamIdentifier, byteBuf);
        }
        byteBuf.retain();
    }
}
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```

```
*/
```

```
package io.netty.handler.codec;
```

```
import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
```

```
/**
```

```
* A set of commonly used delimiters for {@link DelimiterBasedFrameDecoder}.
```

```
*/
```

```
public final class Delimiters {
```

```
    /**
```

```
     * Returns a {@code NUL (0x00)} delimiter, which could be used for
     * Flash XML socket or any similar protocols.
```

```
    */
```

```
    public static ByteBuf[] nulDelimiter() {
        return new ByteBuf[] {
            Unpooled.wrappedBuffer(new byte[] { 0 }) };
    }
```

```
    /**
```

```
     * Returns {@code CR ('\r')} and {@code LF ('\n')} delimiters, which could
     * be used for text-based line protocols.
```

```
    */
```

```
    public static ByteBuf[] lineDelimiter() {
        return new ByteBuf[] {
            Unpooled.wrappedBuffer(new byte[] { '\r', '\n' }),
            Unpooled.wrappedBuffer(new byte[] { '\n' }),
        };
    }
```

```
    private Delimiters() {
```

```
        // Unused
```

```
    }
```

```
}
```

```
/*
```

```
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```

```
*
```

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*/
package io.netty.handler.codec;

import io.netty.buffer.ByteBuf;
import io.netty.channel.ChannelHandlerContext;

import java.util.List;

/**
 * A decoder that splits the received {@link ByteBuf}s by one or more
 * delimiters. It is particularly useful for decoding the frames which ends
 * with a delimiter such as {@link Delimiters#nulDelimiter() NUL} or
 * {@link Delimiters#lineDelimiter() newline characters}.
 *
 * <h3>Predefined delimiters</h3>
 * <p>
 * {@link Delimiters} defines frequently used delimiters for convenience' sake.
 *
 * <h3>Specifying more than one delimiter</h3>
 * <p>
 * {@link DelimiterBasedFrameDecoder} allows you to specify more than one
 * delimiter. If more than one delimiter is found in the buffer, it chooses
 * the delimiter which produces the shortest frame. For example, if you have
 * the following data in the buffer:
 * <pre>
 * +-----+
 * | ABC\nDEF\r\n |
 * +-----+
 * </pre>
 * a {@link DelimiterBasedFrameDecoder}({@link Delimiters#lineDelimiter() Delimiters.lineDelimiter()})
 * will choose {@code '\n'} as the first delimiter and produce two frames:
 * <pre>
 * +-----+
 * | ABC | DEF |
 * +-----+
 * </pre>
 * rather than incorrectly choosing {@code '\r\n'} as the first delimiter:
 * <pre>
 * +-----+
 * | ABC\nDEF |
 * +-----+
 * </pre>

```

```

*/
public class DelimiterBasedFrameDecoder extends ByteToMessageDecoder {

    private final ByteBuf[] delimiters;
    private final int maxFrameLength;
    private final boolean stripDelimiter;
    private final boolean failFast;
    private boolean discardingTooLongFrame;
    private int tooLongFrameLength;
    /** Set only when decoding with "\n" and "\r\n" as the delimiter. */
    private final LineBasedFrameDecoder lineBasedDecoder;

    /**
     * Creates a new instance.
     *
     * @param maxFrameLength the maximum length of the decoded frame.
     *                       A {@link TooLongFrameException} is thrown if
     *                       the length of the frame exceeds this value.
     * @param delimiter the delimiter
     */
    public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf delimiter) {
        this(maxFrameLength, true, delimiter);
    }

    /**
     * Creates a new instance.
     *
     * @param maxFrameLength the maximum length of the decoded frame.
     *                       A {@link TooLongFrameException} is thrown if
     *                       the length of the frame exceeds this value.
     * @param stripDelimiter whether the decoded frame should strip out the
     *                       delimiter or not
     * @param delimiter the delimiter
     */
    public DelimiterBasedFrameDecoder(
        int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
        this(maxFrameLength, stripDelimiter, true, delimiter);
    }

    /**
     * Creates a new instance.
     *
     * @param maxFrameLength the maximum length of the decoded frame.
     *                       A {@link TooLongFrameException} is thrown if
     *                       the length of the frame exceeds this value.
     * @param stripDelimiter whether the decoded frame should strip out the
     *                       delimiter or not
     * @param failFast If <tt>true</tt>, a {@link TooLongFrameException} is

```

```

*         thrown as soon as the decoder notices the length of the
*         frame will exceed <tt>maxFrameLength</tt> regardless of
*         whether the entire frame has been read.
*         If <tt>>false</tt>, a { @link TooLongFrameException } is
*         thrown after the entire frame that exceeds
*         <tt>maxFrameLength</tt> has been read.
* @param delimiter the delimiter
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast,
    ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, failFast, new ByteBuf[] {
        delimiter.slice(delimiter.readerIndex(), delimiter.readableBytes())});
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *         A { @link TooLongFrameException } is thrown if
 *         the length of the frame exceeds this value.
 * @param delimiters the delimiters
 */
public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf... delimiters) {
    this(maxFrameLength, true, delimiters);
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *         A { @link TooLongFrameException } is thrown if
 *         the length of the frame exceeds this value.
 * @param stripDelimiter whether the decoded frame should strip out the
 *         delimiter or not
 * @param delimiters the delimiters
 */
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf... delimiters) {
    this(maxFrameLength, stripDelimiter, true, delimiters);
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *         A { @link TooLongFrameException } is thrown if
 *         the length of the frame exceeds this value.

```

```

* @param stripDelimiter whether the decoded frame should strip out the
*       delimiter or not
* @param failFast If <tt>true</tt>, a { @link TooLongFrameException } is
*       thrown as soon as the decoder notices the length of the
*       frame will exceed <tt>maxFrameLength</tt> regardless of
*       whether the entire frame has been read.
*       If <tt>false</tt>, a { @link TooLongFrameException } is
*       thrown after the entire frame that exceeds
*       <tt>maxFrameLength</tt> has been read.
* @param delimiters the delimiters
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast, ByteBuf... delimiters) {
    validateMaxFrameLength(maxFrameLength);
    if (delimiters == null) {
        throw new NullPointerException("delimiters");
    }
    if (delimiters.length == 0) {
        throw new IllegalArgumentException("empty delimiters");
    }

    if (isLineBased(delimiters) && !isSubclass()) {
        lineBasedDecoder = new LineBasedFrameDecoder(maxFrameLength, stripDelimiter, failFast);
        this.delimiters = null;
    } else {
        this.delimiters = new ByteBuf[delimiters.length];
        for (int i = 0; i < delimiters.length; i++) {
            ByteBuf d = delimiters[i];
            validateDelimiter(d);
            this.delimiters[i] = d.slice(d.readerIndex(), d.readableBytes());
        }
        lineBasedDecoder = null;
    }
    this.maxFrameLength = maxFrameLength;
    this.stripDelimiter = stripDelimiter;
    this.failFast = failFast;
}

/** Returns true if the delimiters are "\n" and "\r\n". */
private static boolean isLineBased(final ByteBuf[] delimiters) {
    if (delimiters.length != 2) {
        return false;
    }
    ByteBuf a = delimiters[0];
    ByteBuf b = delimiters[1];
    if (a.capacity() < b.capacity()) {
        a = delimiters[1];
        b = delimiters[0];
    }
}

```

```

    }
    return a.capacity() == 2 && b.capacity() == 1
        && a.getBytes(0) == '\r' && a.getBytes(1) == '\n'
        && b.getBytes(0) == '\n';
}

/**
 * Return {@code true} if the current instance is a subclass of DelimiterBasedFrameDecoder
 */
private boolean isSubclass() {
    return getClass() != DelimiterBasedFrameDecoder.class;
}

@Override
protected final void decode(ChannelHandlerContext ctx, ByteBuf in, List<Object> out) throws Exception {
    Object decoded = decode(ctx, in);
    if (decoded != null) {
        out.add(decoded);
    }
}

/**
 * Create a frame out of the {@link ByteBuf} and return it.
 *
 * @param ctx the {@link ChannelHandlerContext} which this {@link ByteToMessageDecoder}
belongs to
 * @param buffer the {@link ByteBuf} from which to read data
 * @return frame the {@link ByteBuf} which represent the frame or {@code null} if no frame could
 * be created.
 */
protected Object decode(ChannelHandlerContext ctx, ByteBuf buffer) throws Exception {
    if (lineBasedDecoder != null) {
        return lineBasedDecoder.decode(ctx, buffer);
    }
    // Try all delimiters and choose the delimiter which yields the shortest frame.
    int minFrameLength = Integer.MAX_VALUE;
    ByteBuf minDelim = null;
    for (ByteBuf delim: delimiters) {
        int frameLength = indexOf(buffer, delim);
        if (frameLength >= 0 && frameLength < minFrameLength) {
            minFrameLength = frameLength;
            minDelim = delim;
        }
    }
}

if (minDelim != null) {
    int minDelimLength = minDelim.capacity();
    ByteBuf frame;

```

```

if (discardingTooLongFrame) {
    // We've just finished discarding a very large frame.
    // Go back to the initial state.
    discardingTooLongFrame = false;
    buffer.skipBytes(minFrameLength + minDelimLength);

    int tooLongFrameLength = this.tooLongFrameLength;
    this.tooLongFrameLength = 0;
    if (!failFast) {
        fail(ctx, tooLongFrameLength);
    }
    return null;
}

if (minFrameLength > maxFrameLength) {
    // Discard read frame.
    buffer.skipBytes(minFrameLength + minDelimLength);
    fail(ctx, minFrameLength);
    return null;
}

if (stripDelimiter) {
    frame = buffer.readBytes(minFrameLength);
    buffer.skipBytes(minDelimLength);
} else {
    frame = buffer.readBytes(minFrameLength + minDelimLength);
}

return frame;
} else {
    if (!discardingTooLongFrame) {
        if (buffer.readableBytes() > maxFrameLength) {
            // Discard the content of the buffer until a delimiter is found.
            tooLongFrameLength = buffer.readableBytes();
            buffer.skipBytes(buffer.readableBytes());
            discardingTooLongFrame = true;
            if (failFast) {
                fail(ctx, tooLongFrameLength);
            }
        }
    } else {
        // Still discarding the buffer since a delimiter is not found.
        tooLongFrameLength += buffer.readableBytes();
        buffer.skipBytes(buffer.readableBytes());
    }
    return null;
}
}

```

```

}

private void fail(ChannelHandlerContext ctx, long frameLength) {
    if (frameLength > 0) {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength +
                ": " + frameLength + " - discarded"));
    } else {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength +
                " - discarding"));
    }
}

/**
 * Returns the number of bytes between the readerIndex of the haystack and
 * the first needle found in the haystack. -1 is returned if no needle is
 * found in the haystack.
 */
private static int indexOf(ByteBuf haystack, ByteBuf needle) {
    for (int i = haystack.readerIndex(); i < haystack.writerIndex(); i++) {
        int haystackIndex = i;
        int needleIndex;
        for (needleIndex = 0; needleIndex < needle.capacity(); needleIndex++) {
            if (haystack.getBytes(haystackIndex) != needle.getBytes(needleIndex)) {
                break;
            } else {
                haystackIndex++;
                if (haystackIndex == haystack.writerIndex() &&
                    needleIndex != needle.capacity() - 1) {
                    return -1;
                }
            }
        }
    }

    if (needleIndex == needle.capacity()) {
        // Found the needle from the haystack!
        return i - haystack.readerIndex();
    }
}

return -1;
}

private static void validateDelimiter(ByteBuf delimiter) {
    if (delimiter == null) {
        throw new NullPointerException("delimiter");
    }
}

```

```

    }
    if (!delimiter.isReadable()) {
        throw new IllegalArgumentException("empty delimiter");
    }
}

private static void validateMaxFrameLength(int maxFrameLength) {
    if (maxFrameLength <= 0) {
        throw new IllegalArgumentException(
            "maxFrameLength must be a positive integer: " +
            maxFrameLength);
    }
}
}
}
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 * under the License.
 */
package io.netty.handler.ssl;

/**
 * Event that is fired once the SSL handshake is complete, which may be because it was successful or there
 * was an error.
 */
public final class SslHandshakeCompletionEvent {

    public static final SslHandshakeCompletionEvent SUCCESS = new SslHandshakeCompletionEvent();

    private final Throwable cause;

    /**
     * Creates a new event that indicates a successful handshake.
     */
    private SslHandshakeCompletionEvent() {
        cause = null;
    }
}

```

```

/**
 * Creates a new event that indicates an unsuccessful handshake.
 * Use {@link #SUCCESS} to indicate a successful handshake.
 */
public SslHandshakeCompletionEvent(Throwable cause) {
    if (cause == null) {
        throw new NullPointerException("cause");
    }
    this.cause = cause;
}

/**
 * Return {@code true} if the handshake was successful
 */
public boolean isSuccess() {
    return cause == null;
}

/**
 * Return the {@link Throwable} if {@link #isSuccess()} returns {@code false}
 * and so the handshake failed.
 */
public Throwable cause() {
    return cause;
}
}

```

1.794 ng-annotate 0.15.4

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1.795 node-pre-gyp 0.6.19

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1.796 node-uuid 1.4.7

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1.797 node.extend 1.1.5

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1.798 nopt 3.0.6

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1.799 normalize-package-data 2.3.5

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1.800 normalize-path 2.0.1

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1.801 npmlog 2.0.0

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1.802 ntpdate 4.2.6p5 :1.e16

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

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

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<Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
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23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
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31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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 42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
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 45. [49]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
 46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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 49. [53]Michael Shields <shields@tembel.org> USNO clock driver
 50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
 52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
 53. [57]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
 54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
 55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
 13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
 14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
 15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
 16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
 17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
 18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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 23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
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 28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
 29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
 30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
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 37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
 38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntprtrace utility
 39. [42]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
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- Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
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44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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49. [53]Michael Shields <shields@tembel.org> USNO clock driver
50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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47. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de
48. mailto:%20dirce@zk3.dec.com
49. mailto:%20wsanchez@apple.com
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1.803 number-is-nan 1.0.0

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1.804 oauth-sign 0.8.1

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1.809 object-component 0.0.3

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1.811 object-keys 0.4.0

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1.812 object-path 0.9.2

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1.813 object.omit 2.0.0

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1.822 openstack4j 2.0.7

1.823 openstack4j 2.0.1

1.824 openstack4j-jersey2 2.0.7

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1.826 opn 3.0.3

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1.828 optimist 0.6.1

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1.829 options 0.0.6

1.830 options 1.2

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1.845 parse-glob 3.0.4

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1.846 parse-json 2.2.0

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1.847 parsejson 0.0.1

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1.848 parseqs 0.0.2

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1.851 parseurl 1.3.1

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1.852 patch 2.6 :6.e16

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Version 3, 29 June 2007

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1.860 pax 3.4 :10.1.e16

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1.861 perl 5.10.1 :136.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.862 perl-Class-Inspector 1.28 :2.el7

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The End

1.863 perl-SOAP-Lite 0.715

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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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charset=UTF-8

vim600: encoding=UTF-8

"streamable kanji code filter and converter"

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◆履歴◆

1998/11/10 sgk implementation in C++

1999/4/25 sgk Cで書きなおし。

1999/4/26 sgk

入力フィルタを実装。漢

3383;コードを推定しながらフ

ィルタを追加。

1999/6/?? Unicodeサポート。

1999/6/22 sgk

ライセンスをLGPLに変更。

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

University of Cambridge Computing Service,
Cambridge, England.

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1.875 play_twirl-api_2.11 1.0.2

1.876 polycoreutils 2.0.83 :19.30.el6

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1.891 pulseaudio 0.9.21 :14.el6_3

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-- Lennart Poettering, April 20th, 2006.

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

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

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

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

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

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

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

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

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

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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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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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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.893 pyrad 2.0 :May 15, 2011

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1.894 python 2.6.6 :52.e16

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

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

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1.895 python-argparse 1.2.1-2.1.el6

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2.2	2.1.1	2001	PSF	yes
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2.2.1	2.2	2002	PSF	yes
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2.3	2.2.2	2002-2003	PSF	yes
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2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.4.2	2.4.1	2005	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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1.896 python-boto 2.25.0 :2.el6

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1.897 python-cheetah 2.4.1 :1.el6

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1.898 python-configobj 4.6.0 :3.el6

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# Install script for ConfigObj
# Copyright (C) 2005-2009 Michael Foord, Mark Andrews, Nicola Larosa
# E-mail: fuzzyman AT voidspace DOT org DOT uk
#      mark AT la-la DOT com
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1.899 python-dateutil 1.4.1 :6.el6

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

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
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1.901 python-ethtool 0.6 :3.e16

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1.902 python-glanceclient 0.8.0 :2.el6

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1.903 python-gudev 147.1 :4.el6_0.1

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1.904 python-iniparse 0.3.1 :2.1.e16

1.904.1 Available under license :

A. HISTORY OF THE SOFTWARE

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

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

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

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

Release from	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes

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1.905 python-iwlib 0.1 :1.2.el6

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1.906 python-jsonpatch 1.2 :2.el6.centos

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1.907 python-jsonpointer 1.0

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1.908 python-libs 2.6.6 :36.el6

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes

2.6.4	2.6.3	2009	PSF	yes
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1.910 python-novaclient 2.11.1

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1.911 python-paramiko 1.7.5 :2.1.el6

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1.912 python-ping NA

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""""

A pure python ping implementation using raw socket.

Note that ICMP messages can only be sent from processes running as root.

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Original Version from Matthew Dixon Cowles:

-> <ftp://ftp.visi.com/users/mdc/ping.py>

Rewrite by Jens Diemer:

-> <http://www.python-forum.de/post-69122.html#69122>

Revision history

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March 11, 2010

changes by Samuel Stauffer:

- replaced time.clock with default\_timer which is set to time.clock on windows and time.time on other systems.

May 30, 2007

little rewrite by Jens Diemer:

- change socket asterisk import to a normal import
- replace time.time() with time.clock()
- delete "return None" (or change to "return" only)
- in checksum() rename "str" to "source\_string"

November 22, 1997

Initial hack. Doesn't do much, but rather than try to guess what features I (or others) will want in the future, I've only put in what I need now.

December 16, 1997

For some reason, the checksum bytes are in the wrong order when this is run under Solaris 2.X for SPARC but it works right under Linux x86. Since I don't know just what's wrong, I'll swap the bytes always and then do an htons().

December 4, 2000

Changed the struct.pack() calls to pack the checksum and ID as unsigned. My thanks to Jerome Poincheval for the fix.

Januari 27, 2015

Changed receive response to not accept ICMP request messages. It was possible to receive the very request that was sent.

Last commit info:

~~~~~

\$LastChangedDate: \$

\$Rev: \$

\$Author: \$

""

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1.913 python-pip 1.4.1

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1.914 python-prettytable 0.6.1 :1.e16

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1.915 python-pycurl 7.19.0 :8.el6

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1.917 python-quantumclient 2.1.1

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1.918 python-rhsm 1.1.8 :1.e16

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

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```
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```

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

Ty Coon, President of Vice

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1.919 python-setuptools 2.0.1

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# Major enhancements and refactoring by:  
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#   Edward Loper
```

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1.949 regex-cache 0.4.2

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1.950 regexp 1.5 :4.4.el6

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1.951 relaxng - datatype (java) 2.0011011E7

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1.952 repeat-element 1.1.2

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1.956 replace-ext 0.0.1

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1.962 resolver 1.2

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1.991 servlet-api 2.3

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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;
}
```

1.992 set-immediate-shim 1.0.1

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1.993 setools 3.3.7 :4.el6

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```
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```

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1.994 setserial 2.17 :25.el6

1.994.1 Available under license :

```
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# Attempt to guess a canonical system name.
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#
# Written by Per Bothner <bothner@cygnus.com>.
# The master version of this file is at the FSF in /home/gd/gnu/lib.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
```

```

# don't specify an explicit system type (host/target name).
#
# Only a few systems have been added to this list; please add others
# (but try to keep the structure clean).
#
#! /bin/sh
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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# without express or implied warranty.
#
# Calling this script install-sh is preferred over install.sh, to prevent
# 'make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
# from scratch.
#
/*
* include/linux/serial.h
*
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*/

```

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Doug Gilbert

4th January 2009

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*/

package oauth.signpost.commonshhttp;

import java.io.IOException;

import oauth.signpost.AbstractOAuthProvider;

import oauth.signpost.http.HttpRequest;

```

import org.apache.http.HttpEntity;
import org.apache.http.HttpResponse;
import org.apache.http.client.HttpClient;
import org.apache.http.client.methods.HttpPost;
import org.apache.http.client.methods.HttpUriRequest;
import org.apache.http.impl.client.DefaultHttpClient;

/**
 * This implementation uses the Apache Commons { @link HttpClient } 4.x HTTP
 * implementation to fetch OAuth tokens from a service provider. Android users
 * should use this provider implementation in favor of the default one, since
 * the latter is known to cause problems with Android's Apache Harmony
 * underpinnings.
 *
 * @author Matthias Kaeppler
 */
public class CommonsHttpOAuthProvider extends AbstractOAuthProvider {

    private static final long serialVersionUID = 1L;

    private transient HttpClient httpClient;

    public CommonsHttpOAuthProvider(String requestTokenEndpointUrl, String accessTokenEndpointUrl,
        String authorizationWebsiteUrl) {
        super(requestTokenEndpointUrl, accessTokenEndpointUrl, authorizationWebsiteUrl);
        this.httpClient = new DefaultHttpClient();
    }

    public CommonsHttpOAuthProvider(String requestTokenEndpointUrl, String accessTokenEndpointUrl,
        String authorizationWebsiteUrl, HttpClient httpClient) {
        super(requestTokenEndpointUrl, accessTokenEndpointUrl, authorizationWebsiteUrl);
        this.httpClient = httpClient;
    }

    public void setHttpClient(HttpClient httpClient) {
        this.httpClient = httpClient;
    }

    @Override
    protected HttpRequest createRequest(String endpointUrl) throws Exception {
        HttpPost request = new HttpPost(endpointUrl);
        return new HttpRequestAdapter(request);
    }

    @Override
    protected oauth.signpost.http.HttpResponse sendRequest(HttpRequest request) throws Exception {
        HttpResponse response = httpClient.execute((HttpUriRequest) request.unwrap());
    }

```

```

        return new HttpResponseAdapter(response);
    }

    @Override
    protected void closeConnection(HttpServletRequest request, oauth.signpost.http.HttpResponse response)
        throws Exception {
        if (response != null) {
            HttpEntity entity = ((HttpResponse) response.unwrap()).getEntity();
            if (entity != null) {
                try {
                    // free the connection
                    entity.consumeContent();
                } catch (IOException e) {
                    // this means HTTP keep-alive is not possible
                    e.printStackTrace();
                }
            }
        }
    }
}

```

1.1002 signpost-core 1.2.1.2

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```

package oauth.signpost;

import java.io.IOException;
import java.io.InputStream;
import java.util.Random;

import oauth.signpost.basic.UrlStringRequestAdapter;
import oauth.signpost.exception.OAuthCommunicationException;
import oauth.signpost.exception.OAuthExpectationFailedException;
import oauth.signpost.exception.OAuthMessageSignerException;
import oauth.signpost.http.HttpParameters;
import oauth.signpost.http.HttpRequest;
import oauth.signpost.signature.AuthorizationHeaderSigningStrategy;
import oauth.signpost.signature.HmacSha1MessageSigner;
import oauth.signpost.signature.OAuthMessageSigner;
import oauth.signpost.signature.QueryStringSigningStrategy;
import oauth.signpost.signature.SigningStrategy;

/**
 * ABC for consumer implementations. If you're developing a custom consumer you
 * will probably inherit from this class to save you a lot of work.
 *
 * @author Matthias Kaeppler
 */
public abstract class AbstractOAuthConsumer implements OAuthConsumer {

    private static final long serialVersionUID = 1L;

    private String consumerKey, consumerSecret;

    private String token;

    private OAuthMessageSigner messageSigner;

    private SigningStrategy signingStrategy;

    // these are params that may be passed to the consumer directly (i.e.
    // without going through the request object)
    private HttpParameters additionalParameters;

    // these are the params which will be passed to the message signer
    private HttpParameters requestParameters;

    private boolean sendEmptyTokens;

    final private Random random = new Random(System.nanoTime());

    public AbstractOAuthConsumer(String consumerKey, String consumerSecret) {

```

```

    this.consumerKey = consumerKey;
    this.consumerSecret = consumerSecret;
    setMessageSigner(new HmacSha1MessageSigner());
    setSigningStrategy(new AuthorizationHeaderSigningStrategy());
}

public void setMessageSigner(OAuthMessageSigner messageSigner) {
    this.messageSigner = messageSigner;
    messageSigner.setConsumerSecret(consumerSecret);
}

public void setSigningStrategy(SigningStrategy signingStrategy) {
    this.signingStrategy = signingStrategy;
}

public void setAdditionalParameters(HttpParameters additionalParameters) {
    this.additionalParameters = additionalParameters;
}

public synchronized HttpRequest sign(HttpRequest request) throws OAuthMessageSignerException,
    OAuthExpectationFailedException, OAuthCommunicationException {
    if (consumerKey == null) {
        throw new OAuthExpectationFailedException("consumer key not set");
    }
    if (consumerSecret == null) {
        throw new OAuthExpectationFailedException("consumer secret not set");
    }

    requestParameters = new HttpParameters();
    try {
        if (additionalParameters != null) {
            requestParameters.putAll(additionalParameters, false);
        }
        collectHeaderParameters(request, requestParameters);
        collectQueryParameters(request, requestParameters);
        collectBodyParameters(request, requestParameters);

        // add any OAuth params that haven't already been set
        completeOAuthParameters(requestParameters);

        requestParameters.remove(OAuth.OAUTH_SIGNATURE);

    } catch (IOException e) {
        throw new OAuthCommunicationException(e);
    }

    String signature = messageSigner.sign(request, requestParameters);
    OAuth.debugOut("signature", signature);
}

```

```

        signingStrategy.writeSignature(signature, request, requestParameters);
        OAuth.debugOut("Request URL", request.getRequestUrl());

        return request;
    }

    public synchronized HttpRequest sign(Object request) throws OAuthMessageSignerException,
        OAuthExpectationFailedException, OAuthCommunicationException {
        return sign(wrap(request));
    }

    public synchronized String sign(String url) throws OAuthMessageSignerException,
        OAuthExpectationFailedException, OAuthCommunicationException {
        HttpRequest request = new UrlStringRequestAdapter(url);

        // switch to URL signing
        SigningStrategy oldStrategy = this.signingStrategy;
        this.signingStrategy = new QueryStringSigningStrategy();

        sign(request);

        // revert to old strategy
        this.signingStrategy = oldStrategy;

        return request.getRequestUrl();
    }

    /**
     * Adapts the given request object to a Signpost {@link HttpRequest}. How
     * this is done depends on the consumer implementation.
     *
     * @param request
     *     the native HTTP request instance
     * @return the adapted request
     */
    protected abstract HttpRequest wrap(Object request);

    public void setTokenWithSecret(String token, String tokenSecret) {
        this.token = token;
        messageSigner.setTokenSecret(tokenSecret);
    }

    public String getToken() {
        return token;
    }

    public String getTokenSecret() {

```

```

    return messageSigner.getTokenSecret();
}

public String getConsumerKey() {
    return this.consumerKey;
}

public String getConsumerSecret() {
    return this.consumerSecret;
}

/**
 * <p>
 * Helper method that adds any OAuth parameters to the given request
 * parameters which are missing from the current request but required for
 * signing. A good example is the oauth_nonce parameter, which is typically
 * not provided by the client in advance.
 * </p>
 * <p>
 * It's probably not a very good idea to override this method. If you want
 * to generate different nonces or timestamps, override
 * {@link #generateNonce()} or {@link #generateTimestamp()} instead.
 * </p>
 *
 * @param out
 *     the request parameter which should be completed
 */
protected void completeOAuthParameters(HttpParameters out) {
    if (!out.containsKey(OAuth.OAUTH_CONSUMER_KEY)) {
        out.put(OAuth.OAUTH_CONSUMER_KEY, consumerKey, true);
    }
    if (!out.containsKey(OAuth.OAUTH_SIGNATURE_METHOD)) {
        out.put(OAuth.OAUTH_SIGNATURE_METHOD, messageSigner.getSignatureMethod(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_TIMESTAMP)) {
        out.put(OAuth.OAUTH_TIMESTAMP, generateTimestamp(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_NONCE)) {
        out.put(OAuth.OAUTH_NONCE, generateNonce(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_VERSION)) {
        out.put(OAuth.OAUTH_VERSION, OAuth.VERSION_1_0, true);
    }
    if (!out.containsKey(OAuth.OAUTH_TOKEN)) {
        if (token != null && !token.equals("") || sendEmptyTokens) {
            out.put(OAuth.OAUTH_TOKEN, token, true);
        }
    }
}

```

```

}

public HttpParameters getRequestParameters() {
    return requestParameters;
}

public void setSendEmptyTokens(boolean enable) {
    this.sendEmptyTokens = enable;
}

/**
 * Collects OAuth Authorization header parameters as per OAuth Core 1.0 spec
 * section 9.1.1
 */
protected void collectHeaderParameters(HttpServletRequest request, HttpParameters out) {
    HttpParameters headerParams =
OAuth.oauthHeaderToParamsMap(request.getHeader(OAuth.HTTP_AUTHORIZATION_HEADER));
    out.putAll(headerParams, false);
}

/**
 * Collects x-www-form-urlencoded body parameters as per OAuth Core 1.0 spec
 * section 9.1.1
 */
protected void collectBodyParameters(HttpServletRequest request, HttpParameters out)
    throws IOException {

    // collect x-www-form-urlencoded body params
    String contentType = request.getContentType();
    if (contentType != null && contentType.startsWith(OAuth.FORM_ENCODED)) {
        InputStream payload = request.getMessagePayload();
        out.putAll(OAuth.decodeForm(payload), true);
    }
}

/**
 * Collects HTTP GET query string parameters as per OAuth Core 1.0 spec
 * section 9.1.1
 */
protected void collectQueryParameters(HttpServletRequest request, HttpParameters out) {

    String url = request.getRequestUrl();
    int q = url.indexOf('?');
    if (q >= 0) {
        // Combine the URL query string with the other parameters:
        out.putAll(OAuth.decodeForm(url.substring(q + 1)), true);
    }
}

```

```

protected String generateTimestamp() {
    return Long.toString(System.currentTimeMillis() / 1000L);
}

protected String generateNonce() {
    return Long.toString(random.nextLong());
}
}
}
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*/

package com.google.gdata.util.common.base;

/**
 * An object that converts literal text into a format safe for inclusion in a
 * particular context (such as an XML document). Typically (but not always), the
 * inverse process of "unescaping" the text is performed automatically by the
 * relevant parser.
 *
 * <p>For example, an XML escaper would convert the literal string { @code
 * "Foo<Bar>"} into { @code "Foo&lt;Bar&gt;"} to prevent { @code "<Bar>"} from
 * being confused with an XML tag. When the resulting XML document is parsed,
 * the parser API will return this text as the original literal string { @code
 * "Foo<Bar>"}.

```

```

public interface Escaper {
/**
 * Returns the escaped form of a given literal string.
 *
 * <p>Note that this method may treat input characters differently depending on
 * the specific escaper implementation.
 * <ul>
 * <li>{@link UnicodeEscaper} handles
 * <a href="http://en.wikipedia.org/wiki/UTF-16">UTF-16</a> correctly,
 * including surrogate character pairs. If the input is badly formed the
 * escaper should throw {@link IllegalArgumentException}.
 * <li>{@link CharEscaper} handles Java characters independently and does not
 * verify the input for well formed characters. A CharEscaper should not be
 * used in situations where input is not guaranteed to be restricted to the
 * Basic Multilingual Plane (BMP).
 * </ul>
 *
 * @param string the literal string to be escaped
 * @return the escaped form of {@code string}
 * @throws NullPointerException if {@code string} is null
 * @throws IllegalArgumentException if {@code string} contains badly formed
 * UTF-16 or cannot be escaped for any other reason
 */
public String escape(String string);

/**
 * Returns an {@code Appendable} instance which automatically escapes all
 * text appended to it before passing the resulting text to an underlying
 * {@code Appendable}.
 *
 * <p>Note that this method may treat input characters differently depending on
 * the specific escaper implementation.
 * <ul>
 * <li>{@link UnicodeEscaper} handles
 * <a href="http://en.wikipedia.org/wiki/UTF-16">UTF-16</a> correctly,
 * including surrogate character pairs. If the input is badly formed the
 * escaper should throw {@link IllegalArgumentException}.
 * <li>{@link CharEscaper} handles Java characters independently and does not
 * verify the input for well formed characters. A CharEscaper should not be
 * used in situations where input is not guaranteed to be restricted to the
 * Basic Multilingual Plane (BMP).
 * </ul>
 *
 * @param out the underlying {@code Appendable} to append escaped output to
 * @return an {@code Appendable} which passes text to {@code out} after
 * escaping it.
 */
public Appendable escape(Appendable out);

```

}

1.1003 simple-fmt 0.1.0

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1.1006 slf4j 1.7.6

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1.1007 SLF4J API Module 1.7.6

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1.1008 slf4j-api 1.7.11

1.1009 slf4j-api 1.7.12

1.1010 SnakeYAML 1.13

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1.1011 SnakeYAML 1.14

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1.1012 SnakeYAML 1.12

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```
cat snakeyaml-1.12-sources/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
/* Copyright (c) 2008 Google Inc.
```

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```

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 */

```
cat snakeyaml-1.12-sources/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
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1.1014 snmp4j 2.3.1

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```
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_## SNMP4J 2 - SimpleOIDTextFormat.java
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_##
#####*/
package org.snmp4j.util;

import java.text.*;
import org.snmp4j.smi.OctetString;
import org.snmp4j.smi.OID;
import java.util.StringTokenizer;

/**
 * The <code>SimpleOIDTextFormat</code> implements a simple textual
 * representation for object IDs as dotted string.
 *
 * @author Frank Fock
 * @version 2.2
 * @since 1.10
 */
public class SimpleOIDTextFormat implements OIDTextFormat {

/**
```

```

* Creates a simple OID text format.
*/
public SimpleOIDTextFormat() {
}

/**
* Returns a textual representation of a raw object ID as dotted
* string ("1.3.6.1.4").
*
* @param value
*   the OID value to format.
* @return
*   the textual representation.
*/
public static String formatOID(int[] value) {
    StringBuilder buf = new StringBuilder(3*value.length);
    for (int i=0; i<value.length; i++) {
        if (i != 0) {
            buf.append('.');
        }
        buf.append((value[i] & 0xFFFFFFFFL));
    }
    return buf.toString();
}

/**
* Returns a textual representation of a raw object ID as dotted
* string ("1.3.6.1.4").
*
* @param value
*   the OID value to format.
* @return
*   the textual representation.
*/
public String format(int[] value) {
    return SimpleOIDTextFormat.formatOID(value);
}

/**
* Returns a textual representation of a raw object ID as dotted
* string ("1.3.6.1.4"). This method is the same as { @link #format(int[])}.
*
* @param value
*   the OID value to format.
* @return
*   the textual representation.
*/
public String formatForRoundTrip(int[] value) {

```

```

return format(value);
}

/**
 * Parses a textual representation of an object ID as dotted string
 * (e.g. "1.3.6.1.2.1.1") and returns its raw value.
 *
 * @param text
 *   a textual representation of an OID.
 * @return
 *   the raw OID value.
 * @throws ParseException
 *   if the OID cannot be parsed successfully.
 */
public static int[] parseOID(String text) throws ParseException {
    StringTokenizer st = new StringTokenizer(text, ".", true);
    int size = st.countTokens();
    int[] value = new int[size];
    size = 0;
    StringBuffer buf = null;
    while (st.hasMoreTokens()) {
        String t = st.nextToken();
        if ((buf == null) && t.startsWith("")) {
            buf = new StringBuffer();
            t = t.substring(1);
        }
        if ((buf != null) && (t.endsWith(""))) {
            buf.append(t.substring(0, t.length()-1));
            OID o = new OctetString(buf.toString()).toSubIndex(true);
            int[] h = value;
            value = new int[st.countTokens()+h.length+o.size()];
            System.arraycopy(h, 0, value, 0, size);
            System.arraycopy(o.getValue(), 0, value, size, o.size());
            size += o.size();
            buf = null;
        }
        else if (buf != null) {
            buf.append(t);
        }
        else if (!"." .equals(t)) {
            value[size++] = (int) Long.parseLong(t.trim());
        }
    }
    if (size < value.length) {
        int[] h = value;
        value = new int[size];
        System.arraycopy(h, 0, value, 0, size);
    }
}

```

```

    }
    return value;
}

/**
 * Parses a textual representation of an object ID as dotted string
 * (e.g. "1.3.6.1.2.1.1") and returns its raw value.
 *
 * @param text
 *   a textual representation of an OID.
 * @return
 *   the raw OID value.
 * @throws ParseException
 *   if the OID cannot be parsed successfully.
 */
public int[] parse(String text) throws ParseException {
    return SimpleOIDTextFormat.parseOID(text);
}
}

/*_#####
_##
_## SNMP4J 2 - SimpleVariableTextFormat.java
_##
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_##
_#####*/
package org.snmp4j.util;

import java.text.*;

import org.snmp4j.smi.*;
import org.snmp4j.SNMP4JSettings;

/**
 * The <code>SimpleVariableTextFormat</code> implements a simple textual
 * representation for SNMP variables based on their type only.

```

```

* No MIB information is used (can be used).
*
* @author Frank Fock
* @version 1.10
* @since 1.10
*/
public class SimpleVariableTextFormat implements VariableTextFormat {

    /**
     * Creates a simple variable text format.
     */
    public SimpleVariableTextFormat() {
    }

    /**
     * Returns a textual representation of the supplied variable against the
     * optionally supplied instance OID.
     *
     * @param instanceOID the instance OID <code>variable</code> is associated
     * with. If <code>null</code> the formatting cannot take any MIB
     * specification of the variable into account and has to format it based
     * on its type only.
     * @param variable
     * the variable to format.
     * @param withOID
     * if <code>>true</code> the <code>instanceOID</code> should be included
     * in the textual representation to form a { @link VariableBinding}
     * representation.
     * @return the textual representation.
     */
    public String format(OID instanceOID, Variable variable, boolean withOID) {
        return (withOID) ?
            SNMP4JSettings.getOIDTextFormat().format(instanceOID.getValue()+
                "="+variable
                : variable.toString());
    }

    /**
     * This operation is not supported by { @link SimpleVariableTextFormat}.
     *
     * @param smiSyntax the SMI syntax identifier identifying the target
     * <code>Variable</code>.
     * @param text a textual representation of the variable.
     * @return the new <code>Variable</code> instance.
     * @throws ParseException if the variable cannot be parsed successfully.
     */
    public Variable parse(int smiSyntax, String text) throws ParseException {
        Variable v = AbstractVariable.createFromSyntax(smiSyntax);

```

```

    if (v instanceof AssignableFromString) {
        ((AssignableFromString)v).setValue(text);
    }
    return v;
}

/**
 * This operation is not supported by { @link SimpleVariableTextFormat }.
 *
 * @param classOrInstanceOID
 * the instance OID <code>variable</code> is associated with. Must not
 * be <code>>null</code>.
 * @param text
 * a textual representation of the variable.
 * @return
 * the new <code>Variable</code> instance.
 * @throws ParseException
 * if the variable cannot be parsed successfully.
 */
public Variable parse(OID classOrInstanceOID, String text) throws
    ParseException {
    throw new UnsupportedOperationException();
}

public VariableBinding parseVariableBinding(String text) throws ParseException {
    int assignmentPos = text.indexOf(" = ");
    if (assignmentPos <= 0) {
        throw new ParseException("Could not locate assignment ' = ' string in '"+
            text, 0);
    }
    OID oid = new OID(SNMP4JSettings.getOIDTextFormat().
        parse(text.substring(0, assignmentPos)));
    Variable var = parse(oid, text.substring(assignmentPos+3));
    return new VariableBinding(oid, var);
}
}

/*_#####
_##
_## SNMP4J 2 - MessageDispatcherImpl.java
_##
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*/

```

```

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_##
_#####*/
package org.snmp4j;

```

```

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

```

```

import org.snmp4j.asn1.*;
import org.snmp4j.event.*;
import org.snmp4j.log.*;
import org.snmp4j.mp.*;
import org.snmp4j.security.SecurityLevel;
import org.snmp4j.security.TsmSecurityStateReference;
import org.snmp4j.smi.*;
import java.nio.ByteBuffer;
import org.snmp4j.transport.UnsupportedAddressClassException;

```

```

/**
 * The MessageDispatcherImpl decodes and dispatches incoming
 * messages using { @link MessageProcessingModel } instances and encodes
 * and sends outgoing messages using an appropriate { @link TransportMapping }
 * instances.
 * <p>
 * The method { @link #processMessage } will be called from a
 * TransportMapping whereas the method { @link #sendPdu } will be
 * called by the application.
 *
 * @see Snmp
 * @see TransportMapping
 * @see MessageProcessingModel
 * @see MPv1
 * @see MPv2c
 * @see MPv3
 *
 * @author Frank Fock
 * @version 2.0
 */

```

```

public class MessageDispatcherImpl implements MessageDispatcher {

    private static final LogAdapter logger =
        LoggerFactory.getLogger(MessageDispatcherImpl.class);

    private List<MessageProcessingModel> mpm = new ArrayList<MessageProcessingModel>(3);

```

```

private Map<Class<? extends Address>, List<TransportMapping>> transportMappings =
    new Hashtable<Class<? extends Address>, List<TransportMapping>>(5);

private int nextTransactionID = new Random().nextInt(Integer.MAX_VALUE-2)+1;
private transient List<CommandResponder> commandResponderListeners;
private transient List<CounterListener> counterListeners;
private transient List<AuthenticationFailureListener> authenticationFailureListeners;

private boolean checkOutgoingMsg = true;

/**
 * Default constructor creates a message dispatcher without any associated
 * message processing models.
 */
public MessageDispatcherImpl() {
}

/**
 * Adds a message processing model to this message dispatcher. If a message
 * processing model with the same ID as the supplied one already exists it
 * will not be changed. Please call { @link #removeMessageProcessingModel}
 * before to replace a message processing model.
 * @param model
 * a MessageProcessingModel instance.
 */
public synchronized void addMessageProcessingModel(MessageProcessingModel model) {
    while (mpm.size() <= model.getID()) {
        mpm.add(null);
    }
    if (mpm.get(model.getID()) == null) {
        mpm.set(model.getID(), model);
    }
}

/**
 * Removes a message processing model from this message dispatcher.
 * @param model
 * a previously added MessageProcessingModel instance.
 */
public synchronized void removeMessageProcessingModel(MessageProcessingModel model) {
    mpm.set(model.getID(), null);
}

/**
 * Adds a transport mapping. When an outgoing message is processed where
 * no specific transport mapping has been specified, then the
 * message dispatcher will use the transport mapping
 * that supports the supplied address class of the target.

```

```

* @param transport
* a TransportMapping instance. If there is already another transport
* mapping registered that supports the same address class, then
* <code>transport</code> will be registered but not used for messages
* without specific transport mapping.
*/
@SuppressWarnings("unchecked")
public synchronized void addTransportMapping(TransportMapping transport) {
    List<TransportMapping> transports =
        transportMappings.get(transport.getSupportedAddressClass());
    if (transports == null) {
        transports = new LinkedList<TransportMapping>();
        transportMappings.put(transport.getSupportedAddressClass(), transports);
    }
    transports.add(transport);
}

/**
* Removes a transport mapping.
* @param transport
* a previously added TransportMapping instance.
* @return
* the supplied TransportMapping if it has been successfully removed,
* <code>null</code> otherwise.
*/
public TransportMapping removeTransportMapping(TransportMapping transport) {
    List<? extends TransportMapping> tm =
        transportMappings.remove(transport.getSupportedAddressClass());
    if (tm != null) {
        if (tm.remove(transport)) {
            return transport;
        }
    }
    return null;
}

/**
* Gets a collection of all registered transport mappings.
* @return
* a Collection instance.
*/
public Collection<TransportMapping> getTransportMappings() {
    ArrayList<TransportMapping> l = new ArrayList<TransportMapping>(transportMappings.size());
    synchronized (transportMappings) {
        for (Iterator<List<TransportMapping>> it = transportMappings.values().iterator(); it.hasNext();) {
            List<? extends TransportMapping> tm = it.next();
            l.addAll(tm);
        }
    }
}

```

```

    }
    return l;
}

public synchronized int getNextRequestID() {
    int nextID = nextTransactionID++;
    if (nextID <= 0) {
        nextID = 1;
        nextTransactionID = 2;
    }
    return nextID;
}

protected PduHandle createPduHandle() {
    return new PduHandle(getNextRequestID());
}

/**
 * Sends a message using the <code>TransportMapping</code> that has been
 * assigned for the supplied address type.
 *
 * @param transport
 *     the transport mapping to be used to send the message.
 * @param destAddress
 *     the transport address where to send the message. The
 *     <code>destAddress</code> must be compatible with the supplied
 *     <code>transport</code>.
 * @param message
 *     the SNMP message to send.
 * @throws IOException
 *     if an I/O error occurred while sending the message or if there is
 *     no transport mapping defined for the supplied address type.
 */
@SuppressWarnings("unchecked")
protected void sendMessage(TransportMapping transport,
                           Address destAddress, byte[] message,
                           TransportStateReference tmStateReference)
    throws IOException
{
    if (transport != null) {
        if (destAddress instanceof GenericAddress) {
            transport.sendMessage(((GenericAddress)destAddress).getAddress(), message, tmStateReference);
        }
        else {
            transport.sendMessage(destAddress, message, tmStateReference);
        }
    }
}

```

```

else {
    String txt = "No transport mapping for address class: "+
        destAddress.getClass().getName()+"="+destAddress;
    logger.error(txt);
    throw new IOException(txt);
}
}

/**
 * Returns a transport mapping that can handle the supplied address.
 * @param destAddress
 *     an Address instance.
 * @return
 *     a <code>TransportMapping</code> instance that can be used to sent
 *     a SNMP message to <code>destAddress</code> or <code>null</code> if
 *     such a transport mapping does not exists.
 * @since 1.6
 */
public TransportMapping getTransport(Address destAddress) {
    Class addressClass = destAddress.getClass();
    do {
        List<TransportMapping> l = transportMappings.get(addressClass);
        if ((l != null) && (l.size() > 0)) {
            return l.get(0);
        }
    }
    while ((addressClass = addressClass.getSuperclass()) != null);
    return null;
}

/**
 * Actually decodes and dispatches an incoming SNMP message using the supplied
 * message processing model.
 *
 * @param sourceTransport
 *     a <code>TransportMapping</code> that matches the incomingAddress type.
 * @param mp
 *     a <code>MessageProcessingModel</code> to process the message.
 * @param incomingAddress
 *     the <code>Address</code> from the entity that sent this message.
 * @param wholeMessage
 *     the <code>BERInputStream</code> containing the SNMP message.
 * @param tmStateReference
 *     the transport model state reference as defined by RFC 5590.
 * @throws IOException
 *     if the message cannot be decoded.
 */

```

```

protected void dispatchMessage(TransportMapping sourceTransport,
    MessageProcessingModel mp,
    Address incomingAddress,
    BERInputStream wholeMessage,
    TransportStateReference tmStateReference) throws IOException {
MutablePDU pdu = new MutablePDU();
Integer32 messageProcessingModel = new Integer32();
Integer32 securityModel = new Integer32();
OctetString securityName = new OctetString();
Integer32 securityLevel = new Integer32();

PduHandle handle = createPduHandle();

Integer32 maxSizeRespPDU =
    new Integer32(sourceTransport.getMaxInboundMessageSize());
StatusInformation statusInfo = new StatusInformation();
MutableStateReference mutableStateReference = new MutableStateReference();
// add the transport mapping to the state reference to allow the MP to
// return REPORTs on the same interface/port the message had been received.
StateReference stateReference = new StateReference();
stateReference.setTransportMapping(sourceTransport);
stateReference.setAddress(incomingAddress);
mutableStateReference.setStateReference(stateReference);

int status = mp.prepareDataElements(this, incomingAddress, wholeMessage,
    tmStateReference,
    messageProcessingModel, securityModel,
    securityName, securityLevel, pdu,
    handle, maxSizeRespPDU, statusInfo,
    mutableStateReference);
if (mutableStateReference.getStateReference() != null) {
    // make sure transport mapping is set
    mutableStateReference.
        getStateReference().setTransportMapping(sourceTransport);
}
if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
    // dispatch it
    CommandResponderEvent e =
        new CommandResponderEvent(this,
            sourceTransport,
            incomingAddress,
            messageProcessingModel.getValue(),
            securityModel.getValue(),
            securityName.getValue(),
            securityLevel.getValue(),
            handle,
            pdu.getPdu(),
            maxSizeRespPDU.getValue(),

```

```

        mutableStateReference.getStateReference());
    fireProcessPdu(e);
}
else {
    switch (status) {
        case SnmpConstants.SNMP_MP_UNSUPPORTED_SECURITY_MODEL:
        case SnmpConstants.SNMPv3_USM_AUTHENTICATION_FAILURE:
        case SnmpConstants.SNMPv3_USM_UNSUPPORTED_SECURITY_LEVEL:
        case SnmpConstants.SNMPv3_USM_UNKNOWN_SECURITY_NAME:
        case SnmpConstants.SNMPv3_USM_AUTHENTICATION_ERROR:
        case SnmpConstants.SNMPv3_USM_NOT_IN_TIME_WINDOW:
        case SnmpConstants.SNMPv3_USM_UNSUPPORTED_AUTHPROTOCOL:
        case SnmpConstants.SNMPv3_USM_UNKNOWN_ENGINEID:
        case SnmpConstants.SNMP_MP_WRONG_USER_NAME:
        case SnmpConstants.SNMPv3_TSM_INADEQUATE_SECURITY_LEVELS:
        case SnmpConstants.SNMP_MP_USM_ERROR: {
            AuthenticationFailureEvent event =
                new AuthenticationFailureEvent(this, incomingAddress,
                    sourceTransport, status,
                    wholeMessage);
            fireAuthenticationFailure(event);
            break;
        }
    }
    logger.warn("statusInfo="+statusInfo+", status="+status);
}
}

```

```

public void processMessage(TransportMapping sourceTransport,
    Address incomingAddress,
    ByteBuffer wholeMessage,
    TransportStateReference tmStateReference) {
    processMessage(sourceTransport, incomingAddress,
        new BERInputStream(wholeMessage),
        tmStateReference);
}

```

```

public void processMessage(TransportMapping sourceTransport,
    Address incomingAddress,
    BERInputStream wholeMessage,
    TransportStateReference tmStateReference) {
    fireIncrementCounter(new CounterEvent(this, SnmpConstants.snmpInPkts));
    if (!wholeMessage.markSupported()) {
        String txt = "Message stream must support marks";
        logger.error(txt);
        throw new IllegalArgumentException(txt);
    }
    try {

```

```

wholeMessage.mark(16);
BER.MutableByte type = new BER.MutableByte();
// decode header but do not check length here, because we do only decode
// the first 16 bytes.
BER.decodeHeader(wholeMessage, type, false);
if (type.getValue() != BER.SEQUENCE) {
    logger.error("ASN.1 parse error (message is not a sequence)");
    CounterEvent event = new CounterEvent(this,
        SnmpConstants.snmpInASNParseErrs);
    fireIncrementCounter(event);
}
Integer32 version = new Integer32();
version.decodeBER(wholeMessage);
MessageProcessingModel mp = getMessageProcessingModel(version.getValue());
if (mp == null) {
    logger.warn("SNMP version "+version+" is not supported");
    CounterEvent event = new CounterEvent(this,
        SnmpConstants.snmpInBadVersions);
    fireIncrementCounter(event);
}
else {
    // reset it
    wholeMessage.reset();
    // dispatch it
    dispatchMessage(sourceTransport, mp, incomingAddress, wholeMessage, tmStateReference);
}
}
catch (IOException iox) {
    iox.printStackTrace();
    logger.warn(iox);
    CounterEvent event =
        new CounterEvent(this, SnmpConstants.snmpInvalidMsgs);
    fireIncrementCounter(event);
}
catch (Exception ex) {
    logger.error(ex);
    if (logger.isDebugEnabled()) {
        ex.printStackTrace();
    }
    if (SNMP4JSettings.isForwardRuntimeExceptions()) {
        throw new RuntimeException(ex);
    }
}
catch (OutOfMemoryError oex) {
    logger.error(oex);
    if (SNMP4JSettings.isForwardRuntimeExceptions()) {
        throw oex;
    }
}

```

```

    }
}

public PduHandle sendPdu(Target target,
    PDU pdu,
    boolean expectResponse) throws MessageException {
    return sendPdu(null, target, pdu, expectResponse);
}

public PduHandle sendPdu(TransportMapping transport,
    Target target,
    PDU pdu,
    boolean expectResponse,
    PduHandleCallback<PDU> pduHandleCallback)
    throws MessageException
{
    int messageProcessingModel = target.getVersion();
    Address transportAddress = target.getAddress();
    int securityModel = target.getSecurityModel();
    int securityLevel = target.getSecurityLevel();
    try {
        byte[] securityName = target.getSecurityName().getValue();
        MessageProcessingModel mp =
            getMessageProcessingModel(messageProcessingModel);
        if (mp == null) {
            throw new MessageException("Unsupported message processing model: "
                + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL);
        }
        if (!mp.isProtocolVersionSupported(messageProcessingModel)) {
            throw new MessageException("SNMP version "+messageProcessingModel+
                " is not supported "+
                "by message processing model "+
                messageProcessingModel,
                SnmpConstants.SNMP_MD_UNSUPPORTED_SNMP_VERSION);
        }
        if (transport == null) {
            transport = getTransport(transportAddress);
        }
        if (transport == null) {
            throw new UnsupportedAddressClassException(
                "Unsupported address class (transport mapping): "+
                transportAddress.getClass().getName(),
                transportAddress.getClass());
        }
        else if (pdu.isConfirmedPdu()) {
            checkListening4ConfirmedPDU(pdu, target.getAddress(), transport);
        }
    }
}

```

```

// check if contextEngineID discovery is needed

// check PDU type
checkOutgoingMsg(transportAddress, messageProcessingModel, pdu);

// if request ID is == 0 then create one here, otherwise use the request
// ID because it may be a resent request.
PduHandle pduHandle;
Integer32 reqID = pdu.getRequestID();
if ((reqID == null) || (reqID.getValue() == 0) &&
    (pdu.getType() != PDU.RESPONSE)) {
    pduHandle = createPduHandle();
}
else {
    pduHandle = new PduHandle(pdu.getRequestID().getValue());
}

// assign request ID
if (pdu.getType() != PDU.V1TRAP) {
    pdu.setRequestID(new Integer32(pduHandle.getTransactionID()));
}

// parameters to receive
GenericAddress destAddress = new GenericAddress();

CertifiedIdentity certifiedIdentity = null;
if (target instanceof CertifiedIdentity) {
    certifiedIdentity = (CertifiedIdentity) target;
}
TransportStateReference tmStateReference =
    new TransportStateReference(transport,
        transportAddress,
        new OctetString(securityName),
        SecurityLevel.get(securityLevel),
        SecurityLevel.undefined,
        false, null, certifiedIdentity);

configureAuthoritativeEngineID(target, mp);
BEROutputStream outgoingMessage = new BEROutputStream();
int status = mp.prepareOutgoingMessage(transportAddress,
    transport.getMaxInboundMessageSize(),
    messageProcessingModel,
    securityModel,
    securityName,
    securityLevel,
    pdu,
    expectResponse,

```

```

        pduHandle,
        destAddress,
        outgoingMessage,
        tmStateReference);

    if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
        // inform callback about PDU new handle
        if (pduHandleCallback != null) {
            pduHandleCallback.pduHandleAssigned(pduHandle, pdu);
        }
        byte[] messageBytes = outgoingMessage.getBuffer().array();
        sendMessage(transport, transportAddress, messageBytes, tmStateReference);
    }
    else {
        throw new MessageException("Message processing model "+
            mp.getID()+" returned error: "+
            SnmpConstants.mpErrorMessage(status), status);
    }
    return pduHandle;
}
catch (IndexOutOfBoundsException iobex) {
    throw new MessageException("Unsupported message processing model: "
        + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL,
iobex);
}
catch (MessageException mex) {
    if (logger.isDebugEnabled()) {
        mex.printStackTrace();
    }
    throw mex;
}
catch (IOException iox) {
    if (logger.isDebugEnabled()) {
        iox.printStackTrace();
    }
    throw new MessageException(iox.getMessage(), SnmpConstants.SNMP_MD_ERROR, iox);
}
}

protected void configureAuthoritativeEngineID(Target target, MessageProcessingModel mp) {
    if ((target instanceof UserTarget) && (mp instanceof MPv3)) {
        UserTarget userTarget = (UserTarget)target;
        if ((userTarget.getAuthoritativeEngineID() != null) && (userTarget.getAuthoritativeEngineID().length > 0)) {
            ((MPv3)mp).addEngineID(target.getAddress(), new OctetString(userTarget.getAuthoritativeEngineID()));
        }
    }
}
}

```

```

private static void checkListening4ConfirmedPDU(PDU pdu, Address target,
        TransportMapping transport) {
    if ((transport != null) && (!transport.isListening())) {
        logger.warn("Sending confirmed PDU "+pdu+" to target "+target+
            " although transport mapping "+transport+
            " is not listening for a response");
    }
}

/**
 * Checks outgoing messages for consistency between PDU and target used.
 * @param transportAddress
 * the target address.
 * @param messageProcessingModel
 * the message processing model to be used.
 * @param pdu
 * the PDU to be sent.
 * @throws MessageException
 * if unrecoverable inconsistencies have been detected.
 */
protected void checkOutgoingMsg(Address transportAddress,
        int messageProcessingModel, PDU pdu)
    throws MessageException
{
    if (checkOutgoingMsg) {
        if (messageProcessingModel == MessageProcessingModel.MPv1 || SNMP4JSettings.isNoGetBulk()) {
            if (pdu.getType() == PDU.GETBULK) {
                if (messageProcessingModel == MessageProcessingModel.MPv1) {
                    logger.warn("Converting GETBULK PDU to GETNEXT for SNMPv1 target: " + transportAddress);
                }
            }
            else {
                logger.info("Converting GETBULK PDU to GETNEXT for target: " + transportAddress);
            }
            pdu.setType(PDU.GETNEXT);
            if (!(pdu instanceof PDUv1)) {
                pdu.setMaxRepetitions(1);
                pdu.setNonRepeaters(0);
            }
        }
    }
}

public int returnResponsePdu(int messageProcessingModel,
        int securityModel,
        byte[] securityName,
        int securityLevel,
        PDU pdu,

```

```

        int maxSizeResponseScopedPDU,
        StateReference stateReference,
        StatusInformation statusInformation)
throws MessageException
{
try {
    MessageProcessingModel mp =
        getMessageProcessingModel(messageProcessingModel);
    if (mp == null) {
        throw new MessageException("Unsupported message processing model: "
            + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL);
    }
    TransportMapping transport = stateReference.getTransportMapping();
    if (transport == null) {
        transport = getTransport(stateReference.getAddress());
    }
    if (transport == null) {
        throw new MessageException("Unsupported address class (transport mapping): "+
            stateReference.getAddress().getClass().getName(),
            SnmpConstants.SNMP_MD_UNSUPPORTED_ADDRESS_CLASS);
    }
    BEROutputStream outgoingMessage = new BEROutputStream();
    int status = mp.prepareResponseMessage(messageProcessingModel,
        transport.getMaxInboundMessageSize(),
        securityModel,
        securityName, securityLevel, pdu,
        maxSizeResponseScopedPDU,
        stateReference,
        statusInformation,
        outgoingMessage);
    if (status == SnmpConstants.SNMP_MP_OK) {
        TransportStateReference tmStateReference = null;
        if (stateReference.getSecurityStateReference() instanceof TsmSecurityStateReference) {
            tmStateReference = ((TsmSecurityStateReference)
                stateReference.getSecurityStateReference()).getTmStateReference();
        }
        sendMessage(transport,
            stateReference.getAddress(),
            outgoingMessage.getBuffer().array(),
            tmStateReference);
    }
    return status;
}
catch (ArrayIndexOutOfBoundsException aex) {
    throw new MessageException("Unsupported message processing model: "
        + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL,
aex);
}
}

```

```

catch (IOException iox) {
    throw new MessageException(iox.getMessage(), SnmpConstants.SNMP_MD_ERROR, iox);
}
}

public void releaseStateReference(int messageProcessingModel,
    PduHandle pduHandle) {
    MessageProcessingModel mp = getMessageProcessingModel(messageProcessingModel);
    if (mp == null) {
        throw new IllegalArgumentException("Unsupported message processing model: "+
            messageProcessingModel);
    }
    mp.releaseStateReference(pduHandle);
}

public synchronized void removeCommandResponder(CommandResponder l) {
    if (commandResponderListeners != null && commandResponderListeners.contains(l)) {
        commandResponderListeners.remove(l);
    }
}

public synchronized void addCommandResponder(CommandResponder l) {
    if (commandResponderListeners == null) {
        commandResponderListeners = new Vector<CommandResponder>(2);
    }
    if (!commandResponderListeners.contains(l)) {
        commandResponderListeners.add(l);
    }
}

/**
 * Fires a <code>CommandResponderEvent</code>. Listeners are called
 * in order of their registration until a listener has processed the
 * PDU successfully.
 * @param e
 * a <code>CommandResponderEvent</code> event.
 */
protected void fireProcessPdu(CommandResponderEvent e) {
    if (commandResponderListeners != null) {
        List<CommandResponder> listeners = commandResponderListeners;
        for (CommandResponder listener : listeners) {
            listener.processPdu(e);
            // if event is marked as processed the event is not forwarded to
            // remaining listeners
            if (e.isProcessed()) {
                return;
            }
        }
    }
}

```

```

    }
}

/**
 * Gets the MessageProcessingModel for the supplied message
 * processing model ID.
 *
 * @param messageProcessingModel
 *     a message processing model ID
 * (see { @link MessageProcessingModel#getID()}).
 * @return
 *     a MessageProcessingModel instance if the ID is known, otherwise
 *     null
 */
public MessageProcessingModel getMessageProcessingModel(int messageProcessingModel) {
    try {
        return mpm.get(messageProcessingModel);
    }
    catch (IndexOutOfBoundsException iobex) {
        return null;
    }
}

/**
 * Removes a CounterListener.
 * @param counterListener
 *     a previously added CounterListener.
 */
public synchronized void removeCounterListener(CounterListener counterListener) {
    if (counterListeners != null && counterListeners.contains(counterListener)) {
        counterListeners.remove(counterListener);
    }
}

/**
 * Adds a CounterListener.
 * @param counterListener
 *     a CounterListener that will be informed when a counter
 *     needs to incremented.
 */
public synchronized void addCounterListener(CounterListener counterListener) {
    if (counterListeners == null) {
        counterListeners = new Vector<CounterListener>(2);
    }
    if (!counterListeners.contains(counterListener)) {
        counterListeners.add(counterListener);
    }
}

```

```

/**
 * Fires a counter incrementation event.
 * @param event
 * the <code>CounterEvent</code> containing the OID of the counter
 * that needs to be incremented.
 */
protected void fireIncrementCounter(CounterEvent event) {
    if (counterListeners != null) {
        for (CounterListener cl : counterListeners) {
            cl.incrementCounter(event);
        }
    }
}

/**
 * Enables or disables the consistency checks for outgoing messages.
 * If the checks are enabled, then GETBULK messages sent to SNMPv1
 * targets will be converted to GETNEXT messages.
 * <p>
 * In general, if an automatically conversion is not possible, an
 * error is thrown when such a message is to be sent.
 * <p>
 * The default is consistency checks enabled.
 *
 * @param checkOutgoingMsg
 * if <code>>true</code> outgoing messages are checked for consistency.
 * Currently, only the PDU type will be checked against the used SNMP
 * version. If <code>>false</code>, no checks will be performed.
 */
public void setCheckOutgoingMsg(boolean checkOutgoingMsg) {
    this.checkOutgoingMsg = checkOutgoingMsg;
}

/**
 * Returns whether consistency checks for outgoing messages are activated.
 * @return
 * if <code>>true</code> outgoing messages are checked for consistency.
 * If <code>>false</code>, no checks are performed.
 */
public boolean isCheckOutgoingMsg() {
    return checkOutgoingMsg;
}

/**
 * Adds a listener for authentication failure events caused by unauthenticated
 * incoming messages.
 * @param l

```

```

* the <code>AuthenticationFailureListener</code> to add.
* @since 1.5
*/
public synchronized void addAuthenticationFailureListener(
    AuthenticationFailureListener l) {
    if (authenticationFailureListeners == null) {
        authenticationFailureListeners = new Vector<AuthenticationFailureListener>(2);
    }
    if (!authenticationFailureListeners.contains(l)) {
        authenticationFailureListeners.add(l);
    }
}

/**
* Removes an <code>AuthenticationFailureListener</code>.
* @param l
* the <code>AuthenticationFailureListener</code> to remove.
*/
public synchronized void removeAuthenticationFailureListener(
    AuthenticationFailureListener l) {
    if (authenticationFailureListeners != null &&
        authenticationFailureListeners.contains(l)) {
        authenticationFailureListeners.remove(l);
    }
}

/**
* Fires an <code>AuthenticationFailureEvent</code> to all registered
* listeners.
* @param event
* the event to fire.
*/
protected void fireAuthenticationFailure(AuthenticationFailureEvent event) {
    if (authenticationFailureListeners != null) {
        List<AuthenticationFailureListener> listeners = authenticationFailureListeners;
        for (AuthenticationFailureListener listener : listeners) {
            listener.authenticationFailure(event);
        }
    }
}

public PduHandle sendPdu(TransportMapping transportMapping,
    Target target,
    PDU pdu,
    boolean expectResponse) throws MessageException {
    return sendPdu(transportMapping, target, pdu, expectResponse, null);
}

```

}

1.1015 snmp4j 2.3.2

1.1016 snmp4j-agent 2.3.1

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1.1017 sntp 1.0.9

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1.1046 spring-aop 3.1.4

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```
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 */

package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;

import org.aopalliance.aop.Advice;
import org.aspectj.lang.reflect.PerClauseKind;

import org.springframework.aop.Pointcut;
import org.springframework.aop.aspectj.AspectJExpressionPointcut;
import org.springframework.aop.aspectj.AspectJPredenceInformation;
import org.springframework.aop.aspectj.InstantiationModelAwarePointcutAdvisor;
import org.springframework.aop.aspectj.annotation.AbstractAspectJAdvisorFactory.AspectJAnnotation;
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

/**
 * Internal implementation of AspectJPointcutAdvisor.
 * Note that there will be one instance of this advisor for each target method.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0
 */
```

```

class InstantiationModelAwarePointcutAdvisorImpl
    implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {

    private final AspectJExpressionPointcut declaredPointcut;

    private Pointcut pointcut;

    private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

    private final Method method;

    private final boolean lazy;

    private final AspectJAdvisorFactory atAspectJAdvisorFactory;

    private Advice instantiatedAdvice;

    private int declarationOrder;

    private String aspectName;

    private Boolean isBeforeAdvice;

    private Boolean isAfterAdvice;

    public InstantiationModelAwarePointcutAdvisorImpl(AspectJAdvisorFactory af, AspectJExpressionPointcut ajexp,
        MetadataAwareAspectInstanceFactory aif, Method method, int declarationOrderInAspect, String aspectName) {

        this.declaredPointcut = ajexp;
        this.method = method;
        this.atAspectJAdvisorFactory = af;
        this.aspectInstanceFactory = aif;
        this.declarationOrder = declarationOrderInAspect;
        this.aspectName = aspectName;

        if (aif.getAspectMetadata().isLazilyInstantiated()) {
            // Static part of the pointcut is a lazy type.
            Pointcut preInstantiationPointcut =
                Pointcuts.union(aif.getAspectMetadata().getPerClausePointcut(), this.declaredPointcut);

            // Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
            // If it's not a dynamic pointcut, it may be optimized out
            // by the Spring AOP infrastructure after the first evaluation.
            this.pointcut = new PerTargetInstantiationModelPointcut(this.declaredPointcut, preInstantiationPointcut, aif);
            this.lazy = true;
        }
        else {

```

```

// A singleton aspect.
this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
this.pointcut = declaredPointcut;
this.lazy = false;
}
}

/**
 * The pointcut for Spring AOP to use. Actual behaviour of the pointcut will change
 * depending on the state of the advice.
 */
public Pointcut getPointcut() {
    return this.pointcut;
}

/**
 * This is only of interest for Spring AOP: AspectJ instantiation semantics
 * are much richer. In AspectJ terminology, all a return of <code>true</code>
 * means here is that the aspect is not a SINGLETON.
 */
public boolean isPerInstance() {
    return (getAspectMetadata().getAjType().getPerClause().getKind() != PerClauseKind.SINGLETON);
}

/**
 * Return the AspectJ AspectMetadata for this advisor.
 */
public AspectMetadata getAspectMetadata() {
    return this.aspectInstanceFactory.getAspectMetadata();
}

/**
 * Lazily instantiate advice if necessary.
 */
public synchronized Advice getAdvice() {
    if (this.instantiatedAdvice == null) {
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
    }
    return this.instantiatedAdvice;
}

public boolean isLazy() {
    return this.lazy;
}

public synchronized boolean isAdviceInstantiated() {
    return (this.instantiatedAdvice != null);
}

```

```

}

private Advice instantiateAdvice(AspectJExpressionPointcut pcut) {
    return this.atAspectJAdvisorFactory.getAdvice(
        this.method, pcut, this.aspectInstanceFactory, this.declarationOrder, this.aspectName);
}

public MetadataAwareAspectInstanceFactory getAspectInstanceFactory() {
    return this.aspectInstanceFactory;
}

public AspectJExpressionPointcut getDeclaredPointcut() {
    return this.declaredPointcut;
}

public int getOrder() {
    return this.aspectInstanceFactory.getOrder();
}

public String getAspectName() {
    return this.aspectName;
}

public int getDeclarationOrder() {
    return this.declarationOrder;
}

public boolean isBeforeAdvice() {
    if (this.isBeforeAdvice == null) {
        determineAdviceType();
    }
    return this.isBeforeAdvice;
}

public boolean isAfterAdvice() {
    if (this.isAfterAdvice == null) {
        determineAdviceType();
    }
    return this.isAfterAdvice;
}

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
    AspectJAnnotation<?> aspectJAnnotation =

```

```

    AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
if (aspectJAnnotation == null) {
    this.isBeforeAdvice = false;
    this.isAfterAdvice = false;
}
else {
    switch (aspectJAnnotation.getAnnotationType()) {
    case AtAfter:
    case AtAfterReturning:
    case AtAfterThrowing:
        this.isAfterAdvice = true;
        this.isBeforeAdvice = false;
        break;
    case AtAround:
    case AtPointcut:
        this.isAfterAdvice = false;
        this.isBeforeAdvice = false;
        break;
    case AtBefore:
        this.isAfterAdvice = false;
        this.isBeforeAdvice = true;
    }
}
}
}

```

@Override

```

public String toString() {
    return "InstantiationModelAwarePointcutAdvisor: expression [" + getDeclaredPointcut().getExpression() +
        "]; advice method [" + this.method + "]; perClauseKind=" +
        this.aspectInstanceFactory.getAspectMetadata().getAjType().getPerClause().getKind();
}

```

/**

```

* Pointcut implementation that changes its behaviour when the advice is instantiated.
* Note that this is a <i>dynamic</i> pointcut. Otherwise it might
* be optimized out if it does not at first match statically.
*/

```

```

private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

```

```

    private final AspectJExpressionPointcut declaredPointcut;

```

```

    private final Pointcut preInstantiationPointcut;

```

```

    private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

```

```

private PerTargetInstantiationModelPointcut(AspectJExpressionPointcut declaredPointcut,
    Pointcut preInstantiationPointcut, MetadataAwareAspectInstanceFactory aspectInstanceFactory) {
    this.declaredPointcut = declaredPointcut;
    this.preInstantiationPointcut = preInstantiationPointcut;
    if (aspectInstanceFactory instanceof LazySingletonAspectInstanceFactoryDecorator) {
        this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;
    }
}

@Override
public boolean matches(Method method, Class targetClass) {
    // We're either instantiated and matching on declared pointcut, or uninstantiated matching on either pointcut
    return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass)) ||
        this.preInstantiationPointcut.getMethodMatcher().matches(method, targetClass);
}

public boolean matches(Method method, Class targetClass, Object[] args) {
    // This can match only on declared pointcut.
    return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass));
}

private boolean isAspectMaterialized() {
    return (this.aspectInstanceFactory == null || this.aspectInstanceFactory.isMaterialized());
}
}
}
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 */

package org.springframework.aop.aspectj.annotation;

import org.springframework.aop.aspectj.SimpleAspectInstanceFactory;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.Order;

```

```

/**
 * Implementation of { @link MetadataAwareAspectInstanceFactory } that
 * creates a new instance of the specified aspect class for every
 * { @link #getAspectInstance() } call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {

    private final AspectMetadata metadata;

    /**
     * Create a new SimpleMetadataAwareAspectInstanceFactory for the given aspect class.
     * @param aspectClass the aspect class
     * @param aspectName the aspect name
     */
    public SimpleMetadataAwareAspectInstanceFactory(Class aspectClass, String aspectName) {
        super(aspectClass);
        this.metadata = new AspectMetadata(aspectClass, aspectName);
    }

    public final AspectMetadata getAspectMetadata() {
        return this.metadata;
    }

    /**
     * Determine a fallback order for the case that the aspect instance
     * does not express an instance-specific order through implementing
     * the { @link org.springframework.core.Ordered } interface.
     * <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
     * @param aspectClass the aspect class
     */
    @Override
    protected int getOrderForAspectClass(Class<?> aspectClass) {
        Order order = aspectClass.getAnnotation(Order.class);
        if (order != null) {
            return order.value();
        }
        return Ordered.LOWEST_PRECEDENCE;
    }
}

```

```

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 */

```

```
package org.springframework.aop.aspectj;
```

```
import org.springframework.aop.framework.AopConfigException;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
```

```

/**
 * Implementation of { @link AspectInstanceFactory } that creates a new instance
 * of the specified aspect class for every { @link #getAspectInstance() } call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */

```

```
public class SimpleAspectInstanceFactory implements AspectInstanceFactory {
```

```
    private final Class aspectClass;
```

```

/**
 * Create a new SimpleAspectInstanceFactory for the given aspect class.
 * @param aspectClass the aspect class
 */

```

```

public SimpleAspectInstanceFactory(Class aspectClass) {
    Assert.notNull(aspectClass, "Aspect class must not be null");
    this.aspectClass = aspectClass;
}

```

```

/**
 * Return the specified aspect class (never <code>null</code>).
 */

```

```

public final Class getAspectClass() {
    return this.aspectClass;
}

```

```

}

public final Object getAspectInstance() {
    try {
        return this.aspectClass.newInstance();
    }
    catch (InstantiationException ex) {
        throw new AopConfigException("Unable to instantiate aspect class [" + this.aspectClass.getName() + "]", ex);
    }
    catch (IllegalAccessException ex) {
        throw new AopConfigException("Cannot access element class [" + this.aspectClass.getName() + "]", ex);
    }
}

public ClassLoader getAspectClassLoader() {
    return this.aspectClass.getClassLoader();
}

/**
 * Determine the order for this factory's aspect instance,
 * either an instance-specific order expressed through implementing
 * the {@link org.springframework.core.Ordered} interface,
 * or a fallback order.
 * @see org.springframework.core.Ordered
 * @see #getOrderForAspectClass
 */
public int getOrder() {
    return getOrderForAspectClass(this.aspectClass);
}

/**
 * Determine a fallback order for the case that the aspect instance
 * does not express an instance-specific order through implementing
 * the {@link org.springframework.core.Ordered} interface.
 * <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
 * @param aspectClass the aspect class
 */
protected int getOrderForAspectClass(Class<?> aspectClass) {
    return Ordered.LOWEST_PRECEDENCE;
}

}

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- */

```
package org.springframework.aop.config;
```

```
import org.springframework.aop.aspectj.AspectInstanceFactory;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.beans.factory.config.ConfigurableBeanFactory;
import org.springframework.core.Ordered;
import org.springframework.util.ClassUtils;
import org.springframework.util.StringUtils;
```

```
/**
```

```
* Implementation of { @link AspectInstanceFactory } that locates the aspect from the
* { @link org.springframework.beans.factory.BeanFactory } using a configured bean name.
```

```
*
```

```
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
```

```
*/
```

```
public class SimpleBeanFactoryAwareAspectInstanceFactory implements AspectInstanceFactory,
BeanFactoryAware {
```

```
    private String aspectBeanName;
```

```
    private BeanFactory beanFactory;
```

```
/**
```

```
* Set the name of the aspect bean. This is the bean that is returned when calling
* { @link #getAspectInstance() }.
```

```
*/
```

```
public void setAspectBeanName(String aspectBeanName) {
    this.aspectBeanName = aspectBeanName;
}
```

```
public void setBeanFactory(BeanFactory beanFactory) {
    this.beanFactory = beanFactory;
    if (!StringUtils.hasText(this.aspectBeanName)) {
```

```

        throw new IllegalArgumentException("'aspectBeanName' is required");
    }
}

/**
 * Look up the aspect bean from the { @link BeanFactory } and returns it.
 * @see #setAspectBeanName
 */
public Object getAspectInstance() {
    return this.beanFactory.getBean(this.aspectBeanName);
}

public ClassLoader getAspectClassLoader() {
    if (this.beanFactory instanceof ConfigurableBeanFactory) {
        return ((ConfigurableBeanFactory) this.beanFactory).getBeanClassLoader();
    }
    else {
        return ClassUtils.getDefaultClassLoader();
    }
}

public int getOrder() {
    if (this.beanFactory.isSingleton(this.aspectBeanName) &&
        this.beanFactory.isTypeMatch(this.aspectBeanName, Ordered.class)) {
        return ((Ordered) this.beanFactory.getBean(this.aspectBeanName)).getOrder();
    }
    return Ordered.LOWEST_PRECEDENCE;
}

}
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 */

package org.springframework.aop.interceptor;

```

```

import org.aopalliance.intercept.MethodInvocation;
import org.apache.commons.logging.Log;

/**
 * Simple AOP Alliance MethodInterceptor that can be introduced
 * in a chain to display verbose trace information about intercepted method
 * invocations, with method entry and method exit info.
 *
 * 

Consider using CustomizableTraceInterceptor for more
 * advanced needs.


 *
 * @author Dmitriy Kopylenko
 * @author Juergen Hoeller
 * @since 1.2
 * @see CustomizableTraceInterceptor
 */
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {

    /**
     * Create a new SimpleTraceInterceptor with a static logger.
     */
    public SimpleTraceInterceptor() {
    }

    /**
     * Create a new SimpleTraceInterceptor with dynamic or static logger,
     * according to the given flag.
     * @param useDynamicLogger whether to use a dynamic logger or a static logger
     * @see #setUseDynamicLogger
     */
    public SimpleTraceInterceptor(boolean useDynamicLogger) {
        setUseDynamicLogger(useDynamicLogger);
    }

    @Override
    protected Object invokeUnderTrace(MethodInvocation invocation, Log logger) throws Throwable {
        String invocationDescription = getInvocationDescription(invocation);
        logger.trace("Entering " + invocationDescription);
        try {
            Object rval = invocation.proceed();
            logger.trace("Exiting " + invocationDescription);
            return rval;
        }
        catch (Throwable ex) {
            logger.trace("Exception thrown in " + invocationDescription, ex);
            throw ex;
        }
    }
}

```

```

    }
}

/**
 * Return a description for the given method invocation.
 * @param invocation the invocation to describe
 * @return the description
 */
protected String getInvocationDescription(MethodInvocation invocation) {
    return "method '" + invocation.getMethod().getName() + "' of class [" +
        invocation.getThis().getClass().getName() + "]";
}

}

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 */

package org.springframework.aop.target;

/**
 * Simple {@link org.springframework.aop.TargetSource} implementation,
 * freshly obtaining the specified target bean from its containing
 * Spring {@link org.springframework.beans.factory.BeanFactory}.
 *
 * <p>Can obtain any kind of target bean: singleton, scoped, or prototype.
 * Typically used for scoped beans.
 *
 * @author Juergen Hoeller
 * @since 2.0.3
 */
public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

    public Object getTarget() throws Exception {
        return getBeanFactory().getBean(getTargetBeanName());
    }
}

```

}

1.1047 spring-boot 1.2.3

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1.1048 spring-boot 1.2.4

1.1049 spring-context-support

4.1.6.RELEASE

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1.1053

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1.1065 stream-throttle 0.1.3

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0.0.10.vaadin1

1.1067 Streaming API for XML 1.0-2

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1.1068 Streaming API for XML (STAX API 1.0)

1.0.1

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1.1069 streamsearch 0.1.2

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1.1085 supports-color 0.2.0

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1.1094 system-config-firewall 1.2.27 :7.2.el6_6

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```

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```
- "TÄ ohjelmaa levitetÄn siinÄ toivossa, ettÄ se olisi hyÄdyllinen mutta "
- "ilman mitÄn takuuta; edes hiljaista takuuta kaupallisesti hyvÄksyttÄvÄstÄ "
- "laadusta tai soveltuvuudesta tiettyyn tarkoitukseen. Katso GPL- lisenssistÄ "
- "lisÄ yksityiskohtia.\n"
- "\n"
- "TÄmÄn ohjelman mukana pitÄisi tulla kopio GPL-lisenssistÄ. Jos nÄin ei ole, "
- "katso <http://www.gnu.org/licenses/>."
+ "You should have received a copy of the GNU General Public License along with this program. If not, see
+ <http://www.gnu.org/licenses/>."
+msgstr "TÄmÄ on vapaa ohjelma: tÄ ohjelmaa saa levittÄ edelleen ja muuttaa Free Software
Foundationin julkaiseman GNU General Public Licensen (GPL-lisenssi) version 3 tai (valinnan mukaan)
myÄhemmÄn version ehtojen mukaisesti\n\nTÄ ohjelmaa levitetÄn siinÄ toivossa, ettÄ se olisi
hyÄdyllinen mutta ilman mitÄn takuuta; edes hiljaista takuuta kaupallisesti hyvÄksyttÄvÄstÄ
laadusta
tai soveltuvuudesta tiettyyn tarkoitukseen. Katso GPL- lisenssistÄ lisÄ yksityiskohtia.\n\nTÄmÄn ohjelman
mukana pitÄisi tulla kopio GPL-lisenssistÄ. Jos nÄin ei ole, katso <http://www.gnu.org/licenses/>."
```

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Version 3, 29 June 2007

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```
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```

```
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```
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1.1095 tar 1.23 :11.e16

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1.1096 tar 2.2.1

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1.1098 tcpdump 4.0.0

:3.20090921gitdf3cb4.2.e16

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/* @(#) \$Header: /tcpdump/master/tcpdump/sctpConstants.h,v 1.4 2003-06-03 23:49:23 guy Exp \$ (LBL) */

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 * Please send any bug reports or fixes you make to one of the following email
 * addresses:
 *
 * rstewar1@email.mot.com
 * kmorneau@cisco.com
 * qxie1@email.mot.com
 *
 * Any bugs reported given to us we will try to fix... any fixes shared will
 * be incorporated into the next SCTP release.
 */

1.1099 tcsh 6.17 :24.e16

1.1099.1 Available under license :

People who have contributed to tcsh for win32 with bugfixes, functionality,
 and other useful pieces of code. If I've left you out, please let me know !

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/*-

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*/

/*

* config.h -- configure various defines for tcsh

*

* All source files should #include this FIRST.

```

*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/***** System dependant compilation flags *****/
/*
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix
* (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)

```

```

*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgtyb.
* This is usually the case for SYSV systems, where
* BSD uses sgtyb. POSIX systems should define this
* anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
* NOTE: don't do this if you are on a Pyramid -- tcsh is
* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
* you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

/*
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS

/***** local defines *****/

#undef NLS_CATALOGS
#endif /* _h_config */

```

1.1100 texinfo 4.13a :8.e16

1.1100.1 Available under license :

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Version 3, 29 June 2007

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```
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```
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#
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# `make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
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#
```

1.1111 time-stamp 1.0.0

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1.1112 tiny-lr 0.1.4

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1.1113 tmpwatch 2.9.16 :4.e16

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1.1114 to-absolute-glob 0.1.1

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1.1115 to-array 0.1.3

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1.1117 Toastr 2.3.1

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1.1118 tomcat-embed-core 8.0.20

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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

may be obtained from:

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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1.1122 tomcat-embed-logging-juli 8.0.20

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1.1124 tomcat-juli 6.0.16

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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
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd

- jsp_2_3.xsd
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1.1126 tomcat7 7.0.34

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 */
package org.apache.catalina.tribes.io;

import java.util.LinkedList;

/**
 *
```

```

* @author Filip Hanik
* @version 1.0
*/
class BufferPool14Impl implements BufferPool.BufferPoolAPI {
    protected int maxSize;
    protected int size = 0;
    protected LinkedList queue = new LinkedList();

    public void setMaxSize(int bytes) {
        this.maxSize = bytes;
    }

    public synchronized int addAndGet(int val) {
        size = size + (val);
        return size;
    }

    public synchronized XByteBuffer getBuffer(int minSize, boolean discard) {
        XByteBuffer buffer = (XByteBuffer)(queue.size()>0?queue.remove(0):null);
        if ( buffer != null ) addAndGet(-buffer.getCapacity());
        if ( buffer == null ) buffer = new XByteBuffer(minSize,discard);
        else if ( buffer.getCapacity() <= minSize ) buffer.expand(minSize);
        buffer.setDiscard(discard);
        buffer.reset();
        return buffer;
    }

    public synchronized void returnBuffer(XByteBuffer buffer) {
        if ( (size + buffer.getCapacity()) <= maxSize ) {
            addAndGet(buffer.getCapacity());
            queue.add(buffer);
        }
    }

    public synchronized void clear() {
        queue.clear();
        size = 0;
    }

    public int getMaxSize() {
        return maxSize;
    }
}
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```

```

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```

```
*/
```

```
package org.apache.catalina.tribes.io;
```

```
import java.util.concurrent.ConcurrentLinkedQueue;
```

```
import java.util.concurrent.atomic.AtomicInteger;
```

```
/**
```

```
*
```

```
* @author Filip Hanik
```

```
* @version 1.0
```

```
*/
```

```
class BufferPool15Impl implements BufferPool.BufferPoolAPI {
    protected int maxSize;
    protected AtomicInteger size = new AtomicInteger(0);
    protected ConcurrentLinkedQueue queue = new ConcurrentLinkedQueue();
```

```
    public void setMaxSize(int bytes) {
        this.maxSize = bytes;
    }

```

```
    public XByteBuffer getBuffer(int minSize, boolean discard) {
        XByteBuffer buffer = (XByteBuffer)queue.poll();
        if ( buffer != null ) size.addAndGet(-buffer.getCapacity());
        if ( buffer == null ) buffer = new XByteBuffer(minSize,discard);
        else if ( buffer.getCapacity() <= minSize ) buffer.expand(minSize);
        buffer.setDiscard(discard);
        buffer.reset();
        return buffer;
    }

```

```
    public void returnBuffer(XByteBuffer buffer) {
        if ( (size.get() + buffer.getCapacity()) <= maxSize ) {
            size.addAndGet(buffer.getCapacity());
            queue.offer(buffer);
        }
    }

```

```

    }
}

public void clear() {
    queue.clear();
    size.set(0);
}

public int getMaxSize() {
    return maxSize;
}

}
/*
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 */

package org.apache.catalina.tribes.io;

import java.io.IOException;
import java.io.InputStream;
import java.io.ObjectInputStream;
import java.io.ObjectStreamClass;

/**
 * Custom subclass of ObjectInputStream that loads from the
 * class loader for this web application. This allows classes defined only
 * with the web application to be found correctly.
 *
 * @author Craig R. McClanahan
 * @author Bip Thelin
 * @author Filip Hanik
 * @version $Revision: 467173 $, $Date: 2006-10-24 01:12:17 +0200 (mar., 24 oct. 2006) $
 */

```

```

public final class ReplicationStream extends ObjectInputStream {

    /**
     * The class loader we will use to resolve classes.
     */
    private ClassLoader[] classLoaders = null;

    /**
     * Construct a new instance of CustomObjectInputStream
     *
     * @param stream The input stream we will read from
     * @param classLoader The class loader used to instantiate objects
     *
     * @exception IOException if an input/output error occurs
     */
    public ReplicationStream(InputStream stream,
                             ClassLoader[] classLoaders)
        throws IOException {

        super(stream);
        this.classLoaders = classLoaders;
    }

    /**
     * Load the local class equivalent of the specified stream class
     * description, by using the class loader assigned to this Context.
     *
     * @param classDesc Class description from the input stream
     *
     * @exception ClassNotFoundException if this class cannot be found
     * @exception IOException if an input/output error occurs
     */
    public Class resolveClass(ObjectStreamClass classDesc)
        throws ClassNotFoundException, IOException {
        String name = classDesc.getName();
        boolean tryRepFirst = name.startsWith("org.apache.catalina.tribes");
        try {
            try
            {
                if ( tryRepFirst ) return findReplicationClass(name);
                else return findExternalClass(name);
            }
            catch ( Exception x )
            {
                if ( tryRepFirst ) return findExternalClass(name);
            }
        }
    }
}

```

```

        else return findReplicationClass(name);
    }
} catch (ClassNotFoundException e) {
    return super.resolveClass(classDesc);
}
}

public Class findReplicationClass(String name)
    throws ClassNotFoundException, IOException {
    Class clazz = Class.forName(name, false, getClass().getClassLoader());
    return clazz;
}

public Class findExternalClass(String name) throws ClassNotFoundException {
    ClassNotFoundException cnfe = null;
    for (int i=0; i<classLoaders.length; i++) {
        try {
            Class clazz = Class.forName(name, false, classLoaders[i]);
            return clazz;
        } catch ( ClassNotFoundException x ) {
            cnfe = x;
        }
    }
    if ( cnfe != null ) throw cnfe;
    else throw new ClassNotFoundException(name);
}

public void close() throws IOException {
    this.classLoaders = null;
    super.close();
}

}
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```

```

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*/

package org.apache.catalina.tribes.membership;

import java.io.IOException;
import java.net.DatagramPacket;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.MulticastSocket;
import java.net.SocketTimeoutException;
import java.util.Arrays;

import org.apache.catalina.tribes.Channel;
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.MembershipListener;
import java.net.BindException;

/**
 * A <b>membership</b> implementation using simple multicast.
 * This is the representation of a multicast membership service.
 * This class is responsible for maintaining a list of active cluster nodes in the cluster.
 * If a node fails to send out a heartbeat, the node will be dismissed.
 * This is the low level implementation that handles the multicasting sockets.
 * Need to fix this, could use java.nio and only need one thread to send and receive, or
 * just use a timeout on the receive
 * @author Filip Hanik
 * @version $Revision: 586228 $, $Date: 2007-10-19 04:16:41 +0200 (ven., 19 oct. 2007) $
 */
public class McastServiceImpl
{
    private static org.apache.juli.logging.Log log =
        org.apache.juli.logging.LogFactory.getLog( McastService.class );

    protected static int MAX_PACKET_SIZE = 65535;
    /**
     * Internal flag used for the listen thread that listens to the multicasting socket.
     */
    protected boolean doRunSender = false;
    protected boolean doRunReceiver = false;
    protected int startLevel = 0;
    /**
     * Socket that we intend to listen to
     */
    protected MulticastSocket socket;
    /**
     * The local member that we intend to broad cast over and over again

```

```

*/
protected MemberImpl member;
/**
 * The multicast address
 */
protected InetAddress address;
/**
 * The multicast port
 */
protected int port;
/**
 * The time it takes for a member to expire.
 */
protected long timeToExpiration;
/**
 * How often to we send out a broadcast saying we are alive, must be smaller than timeToExpiration
 */
protected long sendFrequency;
/**
 * Reuse the sendPacket, no need to create a new one everytime
 */
protected DatagramPacket sendPacket;
/**
 * Reuse the receivePacket, no need to create a new one everytime
 */
protected DatagramPacket receivePacket;
/**
 * The membership, used so that we calculate memberships when they arrive or don't arrive
 */
protected Membership membership;
/**
 * The actual listener, for callback when shits goes down
 */
protected MembershipListener service;
/**
 * Thread to listen for pings
 */
protected ReceiverThread receiver;
/**
 * Thread to send pings
 */
protected SenderThread sender;

/**
 * When was the service started
 */
protected long serviceStartTime = System.currentTimeMillis();

```

```

/**
 * Time to live for the multicast packets that are being sent out
 */
protected int mcastTTL = -1;
/**
 * Read timeout on the mcast socket
 */
protected int mcastSoTimeout = -1;
/**
 * bind address
 */
protected InetAddress mcastBindAddress = null;

/**
 * nr of times the system has to fail before a recovery is initiated
 */
protected int recoveryCounter = 10;

/**
 * The time the recovery thread sleeps between recovery attempts
 */
protected long recoverySleepTime = 5000;

/**
 * Add the ability to turn on/off recovery
 */
protected boolean recoveryEnabled = true;
/**
 * Create a new mcast service impl
 * @param member - the local member
 * @param sendFrequency - the time (ms) in between pings sent out
 * @param expireTime - the time (ms) for a member to expire
 * @param port - the mcast port
 * @param bind - the bind address (not sure this is used yet)
 * @param mcastAddress - the mcast address
 * @param service - the callback service
 * @throws IOException
 */
public McastServiceImpl(
    MemberImpl member,
    long sendFrequency,
    long expireTime,
    int port,
    InetAddress bind,
    InetAddress mcastAddress,
    int ttl,
    int soTimeout,
    MembershipListener service)

```

```

throws IOException {
    this.member = member;
    this.address = mcastAddress;
    this.port = port;
    this.mcastSoTimeout = soTimeout;
    this.mcastTTL = ttl;
    this.mcastBindAddress = bind;
    this.timeToExpiration = expireTime;
    this.service = service;
    this.sendFrequency = sendFrequency;
    init();
}

public void init() throws IOException {
    setupSocket();
    sendPacket = new DatagramPacket(new byte[MAX_PACKET_SIZE],MAX_PACKET_SIZE);
    sendPacket.setAddress(address);
    sendPacket.setPort(port);
    receivePacket = new DatagramPacket(new byte[MAX_PACKET_SIZE],MAX_PACKET_SIZE);
    receivePacket.setAddress(address);
    receivePacket.setPort(port);
    member.setCommand(new byte[0]);
    member.getData(true, true);
    if ( membership == null ) membership = new Membership(member);
}

protected void setupSocket() throws IOException {
    if (mcastBindAddress != null) {
        try {
            log.info("Attempting to bind the multicast socket to "+address+": "+port);
            socket = new MulticastSocket(new InetSocketAddress(address,port));
        } catch (BindException e) {
            /*
             * On some platforms (e.g. Linux) it is not possible to bind
             * to the multicast address. In this case only bind to the
             * port.
             */
            log.info("Binding to multicast address, failed. Binding to port only.");
            socket = new MulticastSocket(port);
        }
    } else {
        socket = new MulticastSocket(port);
    }
    socket.setLoopbackMode(false); //hint that we don't need loop back messages
    if (mcastBindAddress != null) {
        if(log.isInfoEnabled())
            log.info("Setting multihome multicast interface to:" +mcastBindAddress);
        socket.setInterface(mcastBindAddress);
    }
}

```

```

    } //end if
    //force a so timeout so that we don't block forever
    if ( mcastSoTimeout <= 0 ) mcastSoTimeout = (int)sendFrequency;
    if(log.isInfoEnabled())
        log.info("Setting cluster mcast soTimeout to "+mcastSoTimeout);
    socket.setSoTimeout(mcastSoTimeout);

    if ( mcastTTL >= 0 ) {
if(log.isInfoEnabled())
        log.info("Setting cluster mcast TTL to " + mcastTTL);
        socket.setTimeToLive(mcastTTL);
    }
}

/**
 * Start the service
 * @param level 1 starts the receiver, level 2 starts the sender
 * @throws IOException if the service fails to start
 * @throws IllegalStateException if the service is already started
 */
public synchronized void start(int level) throws IOException {
    boolean valid = false;
    if ( (level & Channel.MBR_RX_SEQ)==Channel.MBR_RX_SEQ ) {
        if ( receiver != null ) throw new IllegalStateException("McastService.receive already running.");
        if ( sender == null ) socket.joinGroup(address);
        doRunReceiver = true;
        receiver = new ReceiverThread();
        receiver.setDaemon(true);
        receiver.start();
        valid = true;
    }
    if ( (level & Channel.MBR_TX_SEQ)==Channel.MBR_TX_SEQ ) {
        if ( sender != null ) throw new IllegalStateException("McastService.send already running.");
        if ( receiver == null ) socket.joinGroup(address);
        //make sure at least one packet gets out there
        send(false);
        doRunSender = true;
        serviceStartTime = System.currentTimeMillis();
        sender = new SenderThread(sendFrequency);
        sender.setDaemon(true);
        sender.start();
        //we have started the receiver, but not yet waited for membership to establish
        valid = true;
    }
    if (!valid) {
        throw new IllegalArgumentException("Invalid start level. Only acceptable levels are

```

```

Channel.MBR_RX_SEQ and Channel.MBR_TX_SEQ");
    }
    //pause, once or twice
    waitForMembers(level);
    startLevel = (startLevel | level);
}

private void waitForMembers(int level) {
    long memberwait = sendFrequency*2;
    if(log.isInfoEnabled())
        log.info("Sleeping for "+memberwait+" milliseconds to establish cluster membership, start level:"+level);
    try {Thread.sleep(memberwait);}catch (InterruptedException ignore){ }
    if(log.isInfoEnabled())
        log.info("Done sleeping, membership established, start level:"+level);
}

/**
 * Stops the service
 * @throws IOException if the service fails to disconnect from the sockets
 */
public synchronized boolean stop(int level) throws IOException {
    boolean valid = false;

    if ( (level & Channel.MBR_RX_SEQ)==Channel.MBR_RX_SEQ ) {
        valid = true;
        doRunReceiver = false;
        if ( receiver !=null ) receiver.interrupt();
        receiver = null;
    }
    if ( (level & Channel.MBR_TX_SEQ)==Channel.MBR_TX_SEQ ) {
        valid = true;
        doRunSender = false;
        if ( sender != null )sender.interrupt();
        sender = null;
    }

    if (!valid) {
        throw new IllegalArgumentException("Invalid stop level. Only acceptable levels are
Channel.MBR_RX_SEQ and Channel.MBR_TX_SEQ");
    }
    startLevel = (startLevel & (~level));
    //we're shutting down, send a shutdown message and close the socket
    if ( startLevel == 0 ) {
        //send a stop message
        member.setCommand(Member.SHUTDOWN_PAYLOAD);
        member.getData(true, true);
        send(false);
        //leave mcast group

```

```

        try {socket.leaveGroup(address);}catch ( Exception ignore){}
        serviceStartTime = Long.MAX_VALUE;
    }
    return (startLevel == 0);
}

/**
 * Receive a datagram packet, locking wait
 * @throws IOException
 */
public void receive() throws IOException {
    try {
        socket.receive(receivePacket);
        if(receivePacket.getLength() > MAX_PACKET_SIZE) {
            log.error("Multicast packet received was too long, dropping package:"+receivePacket.getLength());
        } else {
            byte[] data = new byte[receivePacket.getLength()];
            System.arraycopy(receivePacket.getData(), receivePacket.getOffset(), data, 0, data.length);
            final MemberImpl m = MemberImpl.getMember(data);
            if (log.isTraceEnabled()) log.trace("Mcast receive ping from member " + m);
            Thread t = null;
            if (Arrays.equals(m.getCommand(), Member.SHUTDOWN_PAYLOAD)) {
                if (log.isDebugEnabled()) log.debug("Member has shutdown:" + m);
                membership.removeMember(m);
                t = new Thread() {
                    public void run() {
                        service.memberDisappeared(m);
                    }
                };
            } else if (membership.memberAlive(m)) {
                if (log.isDebugEnabled()) log.debug("Mcast add member " + m);
                t = new Thread() {
                    public void run() {
                        service.memberAdded(m);
                    }
                };
            } //end if
            if ( t != null ) t.start();
        }
    } catch (SocketTimeoutException x ) {
        //do nothing, this is normal, we don't want to block forever
        //since the receive thread is the same thread
        //that does membership expiration
    }
    checkExpired();
}

protected Object expiredMutex = new Object();

```

```

protected void checkExpired() {
    synchronized (expiredMutex) {
        MemberImpl[] expired = membership.expire(timeToExpiration);
        for (int i = 0; i < expired.length; i++) {
            final MemberImpl member = expired[i];
            if (log.isDebugEnabled())
                log.debug("Mcast expire member " + expired[i]);
            try {
                Thread t = new Thread() {
                    public void run() {
                        service.memberDisappeared(member);
                    }
                };
                t.start();
            } catch (Exception x) {
                log.error("Unable to process member disappeared message.", x);
            }
        }
    }
}

/**
 * Send a ping
 * @throws Exception
 */
public void send(boolean checkexpired) throws IOException{
    //ignore if we haven't started the sender
    //if ( (startLevel&Channel.MBR_TX_SEQ) != Channel.MBR_TX_SEQ ) return;
    member.inc();
    if(log.isTraceEnabled())
        log.trace("Mcast send ping from member " + member);
    byte[] data = member.getData();
    DatagramPacket p = new DatagramPacket(data,data.length);
    p.setAddress(address);
    p.setPort(port);
    socket.send(p);
    if ( checkexpired ) checkExpired();
}

public long getServiceStartTime() {
    return this.serviceStartTime;
}

public int getRecoveryCounter() {
    return recoveryCounter;
}

public boolean isRecoveryEnabled() {

```



```

        return false;
    }
}
public void run() {
    boolean success = false;
    int attempt = 0;
    try {
        while (!success) {
            if(log.isInfoEnabled())
                log.info("Tribes membership, running recovery thread, multicasting is not functional.");
            if (stopService() & startService()) {
                success = true;
                if(log.isInfoEnabled())
                    log.info("Membership recovery was successful.");
            }
            try {
                if (!success) {
                    if(log.isInfoEnabled())
                        log.info("Recovery attempt "+(++attempt)+" failed, trying again in "
+parent.recoverySleepTime+ " seconds");
                    Thread.sleep(parent.recoverySleepTime);
                }
            }catch (InterruptedException ignore) {
            }
        }finally {
            running = false;
        }
    }
}

public void setRecoveryCounter(int recoveryCounter) {
    this.recoveryCounter = recoveryCounter;
}

public void setRecoveryEnabled(boolean recoveryEnabled) {
    this.recoveryEnabled = recoveryEnabled;
}

public void setRecoverySleepTime(long recoverySleepTime) {
    this.recoverySleepTime = recoverySleepTime;
}
}
/*
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```

```

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*/

```

```
package org.apache.catalina.tribes.membership;
```

```
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.util.Arrays;
```

```
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.io.XByteBuffer;
import org.apache.catalina.tribes.transport.SenderState;
```

```
/**
```

```

* A <b>membership</b> implementation using simple multicast.
* This is the representation of a multicast member.
* Carries the host, and port of the this or other cluster nodes.
*
* @author Filip Hanik
* @version $Revision: 613209 $, $Date: 2008-01-18 18:29:08 +0100 (ven., 18 janv. 2008) $
*/

```

```
public class MemberImpl implements Member, java.io.Externalizable {
```

```
    /**
```

```

        * Should a call to getName or getHostName try to do a DNS lookup?
        * default is false
    */

```

```

        public static final boolean DO_DNS_LOOKUPS =
        Boolean.parseBoolean(System.getProperty("org.apache.catalina.tribes.dns_lookups", "false"));
    /**

```

```

        * Public properties specific to this implementation
    */

```

```

        public static final transient String TCP_LISTEN_PORT = "tcpListenPort";
        public static final transient String TCP_LISTEN_HOST = "tcpListenHost";
        public static final transient String MEMBER_NAME = "memberName";

```

```

        public static final transient byte[] TRIBES_MBR_BEGIN = new byte[] {84, 82, 73, 66, 69, 83, 45, 66};
        public static final transient byte[] TRIBES_MBR_END = new byte[] {84, 82, 73, 66, 69, 83, 45, 69};

```

```

/**
 * The listen host for this member
 */
protected byte[] host;
protected transient String hostname;
/**
 * The tcp listen port for this member
 */
protected int port;

/**
 * The tcp/SSL listen port for this member
 */
protected int securePort = -1;

/**
 * Counter for how many broadcast messages have been sent from this member
 */
protected int msgCount = 0;
/**
 * The number of milliseconds since this members was
 * created, is kept track of using the start time
 */
protected long memberAliveTime = 0;

/**
 * For the local member only
 */
protected transient long serviceStartTime;

/**
 * To avoid serialization over and over again, once the local dataPkg
 * has been set, we use that to transmit data
 */
protected transient byte[] dataPkg = null;

/**
 * Unique session Id for this member
 */
protected byte[] uniqueId = new byte[16];

/**
 * Custom payload that an app framework can broadcast
 * Also used to transport stop command.
 */
protected byte[] payload = new byte[0];

```

```

/**
 * Command, so that the custom payload doesn't have to be used
 * This is for internal tribes use, such as SHUTDOWN_COMMAND
 */
protected byte[] command = new byte[0];

/**
 * Domain if we want to filter based on domain.
 */
protected byte[] domain = new byte[0];

/**
 * Empty constructor for serialization
 */
public MemberImpl() {

}

/**
 * Construct a new member object
 * @param name - the name of this member, cluster unique
 * @param domain - the cluster domain name of this member
 * @param host - the tcp listen host
 * @param port - the tcp listen port
 */
public MemberImpl(String host,
                  int port,
                  long aliveTime) throws IOException {
    setHostname(host);
    this.port = port;
    this.memberAliveTime=aliveTime;
}

public MemberImpl(String host,
                  int port,
                  long aliveTime,
                  byte[] payload) throws IOException {
    this(host,port,aliveTime);
    setPayload(payload);
}

public boolean isReady() {
    return SenderState.getSenderState(this).isReady();
}

public boolean isSuspect() {
    return SenderState.getSenderState(this).isSuspect();
}

public boolean isFailing() {

```

```

    return SenderState.getSenderState(this).isFailing();
}

/**
 * Increment the message count.
 */
protected void inc() {
    msgCount++;
}

/**
 * Create a data package to send over the wire representing this member.
 * This is faster than serialization.
 * @return - the bytes for this member deserialized
 * @throws Exception
 */
public byte[] getData() {
    return getData(true);
}

/**
 * Highly optimized version of serializing a member into a byte array
 * Returns a cached byte[] reference, do not modify this data
 * @param getalive boolean
 * @return byte[]
 */
public byte[] getData(boolean getalive) {
    return getData(getalive,false);
}

public int getDataLength() {
    return TRIBES_MBR_BEGIN.length+ //start pkg
        4+ //data length
        8+ //alive time
        4+ //port
        4+ //secure port
        1+ //host length
        host.length+ //host
        4+ //command length
        command.length+ //command
        4+ //domain length
        domain.length+ //domain
        16+ //unique id
        4+ //payload length
        payload.length+ //payload
        TRIBES_MBR_END.length; //end pkg
}

```

```

/**
 *
 * @param getalive boolean - calculate memberAlive time
 * @param reset boolean - reset the cached data package, and create a new one
 * @return byte[]
 */
public byte[] getData(boolean getalive, boolean reset) {
    if ( reset ) dataPkg = null;
    //look in cache first
    if ( dataPkg!=null ) {
        if ( getalive ) {
            //you'd be surprised, but System.currentTimeMillis
            //shows up on the profiler
            long alive=System.currentTimeMillis()-getServiceStartTime();
            XByteBuffer.toBytes( (long) alive, dataPkg, TRIBES_MBR_BEGIN.length+4);
        }
        return dataPkg;
    }

    //package looks like
    //start package TRIBES_MBR_BEGIN.length
    //package length - 4 bytes
    //alive - 8 bytes
    //port - 4 bytes
    //secure port - 4 bytes
    //host length - 1 byte
    //host - hl bytes
    //clen - 4 bytes
    //command - clen bytes
    //dlen - 4 bytes
    //domain - dlen bytes
    //uniqueId - 16 bytes
    //payload length - 4 bytes
    //payload plen bytes
    //end package TRIBES_MBR_END.length
    byte[] addr = host;
    long alive=System.currentTimeMillis()-getServiceStartTime();
    byte hl = (byte)addr.length;
    byte[] data = new byte[getDataLength()];

    int bodylength = (getDataLength() - TRIBES_MBR_BEGIN.length - TRIBES_MBR_END.length - 4);

    int pos = 0;

    //TRIBES_MBR_BEGIN
    System.arraycopy(TRIBES_MBR_BEGIN,0,data,pos,TRIBES_MBR_BEGIN.length);
    pos += TRIBES_MBR_BEGIN.length;

```

```

//body length
XByteBuffer.toBytes(bodylength,data,pos);
pos += 4;

//alive data
XByteBuffer.toBytes((long)alive,data,pos);
pos += 8;
//port
XByteBuffer.toBytes(port,data,pos);
pos += 4;
//secure port
XByteBuffer.toBytes(securePort,data,pos);
pos += 4;
//host length
data[pos++] = hl;
//host
System.arraycopy(addr,0,data,pos,addr.length);
pos+=addr.length;
//clen - 4 bytes
XByteBuffer.toBytes(command.length,data,pos);
pos+=4;
//command - clen bytes
System.arraycopy(command,0,data,pos,command.length);
pos+=command.length;
//dlen - 4 bytes
XByteBuffer.toBytes(domain.length,data,pos);
pos+=4;
//domain - dlen bytes
System.arraycopy(domain,0,data,pos,domain.length);
pos+=domain.length;
//unique Id
System.arraycopy(uniqueId,0,data,pos,uniqueId.length);
pos+=uniqueId.length;
//payload
XByteBuffer.toBytes(payload.length,data,pos);
pos+=4;
System.arraycopy(payload,0,data,pos,payload.length);
pos+=payload.length;

//TRIBES_MBR_END
System.arraycopy(TRIBES_MBR_END,0,data,pos,TRIBES_MBR_END.length);
pos += TRIBES_MBR_END.length;

//create local data
dataPkg = data;
return data;
}
/**

```

```

* Deserializes a member from data sent over the wire
* @param data - the bytes received
* @return a member object.
*/
public static MemberImpl getMember(byte[] data, MemberImpl member) {
    return getMember(data,0,data.length,member);
}

public static MemberImpl getMember(byte[] data, int offset, int length, MemberImpl member) {
    //package looks like
    //start package TRIBES_MBR_BEGIN.length
    //package length - 4 bytes
    //alive - 8 bytes
    //port - 4 bytes
    //secure port - 4 bytes
    //host length - 1 byte
    //host - hl bytes
    //clen - 4 bytes
    //command - clen bytes
    //dlen - 4 bytes
    //domain - dlen bytes
    //uniqueId - 16 bytes
    //payload length - 4 bytes
    //payload plen bytes
    //end package TRIBES_MBR_END.length

    int pos = offset;

    if (XByteBuffer.indexOf(data,offset,TRIBES_MBR_BEGIN)!=pos) {
        throw new IllegalArgumentException("Invalid package, should start
with:"+org.apache.catalina.tribes.util.Arrays.toString(TRIBES_MBR_BEGIN));
    }

    if ( length < (TRIBES_MBR_BEGIN.length+4) ) {
        throw new ArrayIndexOutOfBoundsException("Member package too small to validate.");
    }

    pos += TRIBES_MBR_BEGIN.length;

    int bodylength = XByteBuffer.toInt(data,pos);
    pos += 4;

    if ( length < (bodylength+4+TRIBES_MBR_BEGIN.length+TRIBES_MBR_END.length) ) {
        throw new ArrayIndexOutOfBoundsException("Not enough bytes in member package.");
    }

    int endpos = pos+bodylength;
    if (XByteBuffer.indexOf(data,endpos,TRIBES_MBR_END)!=endpos) {

```

```
        throw new IllegalArgumentException("Invalid package, should end  
with:"+org.apache.catalina.tribes.util.Arrays.toString(TRIBES_MBR_END));  
    }
```

```
    byte[] alived = new byte[8];  
    System.arraycopy(data, pos, alived, 0, 8);  
    pos += 8;  
    byte[] portd = new byte[4];  
    System.arraycopy(data, pos, portd, 0, 4);  
    pos += 4;
```

```
    byte[] sportd = new byte[4];  
    System.arraycopy(data, pos, sportd, 0, 4);  
    pos += 4;
```

```
    byte hl = data[pos++];  
    byte[] addr = new byte[hl];  
    System.arraycopy(data, pos, addr, 0, hl);  
    pos += hl;
```

```
    int cl = XByteBuffer.toInt(data, pos);  
    pos += 4;
```

```
    byte[] command = new byte[cl];  
    System.arraycopy(data, pos, command, 0, command.length);  
    pos += command.length;
```

```
    int dl = XByteBuffer.toInt(data, pos);  
    pos += 4;
```

```
    byte[] domain = new byte[dl];  
    System.arraycopy(data, pos, domain, 0, domain.length);  
    pos += domain.length;
```

```
    byte[] uniqueId = new byte[16];  
    System.arraycopy(data, pos, uniqueId, 0, 16);  
    pos += 16;
```

```
    int pl = XByteBuffer.toInt(data, pos);  
    pos += 4;
```

```
    byte[] payload = new byte[pl];  
    System.arraycopy(data, pos, payload, 0, payload.length);  
    pos += payload.length;
```

```

        member.setHost(addr);
        member.setPort(XByteBuffer.toInt(portd, 0));
        member.setSecurePort(XByteBuffer.toInt(sportd, 0));
        member.setMemberAliveTime(XByteBuffer.toLong(alived, 0));
        member.setUniqueId(uniqueId);
        member.payload = payload;
        member.domain = domain;
        member.command = command;

        member.dataPkg = new byte[length];
        System.arraycopy(data, offset, member.dataPkg, 0, length);

        return member;
    }

    public static MemberImpl getMember(byte[] data) {
        return getMember(data, new MemberImpl());
    }

    public static MemberImpl getMember(byte[] data, int offset, int length) {
        return getMember(data, offset, length, new MemberImpl());
    }

    /**
     * Return the name of this object
     * @return a unique name to the cluster
     */
    public String getName() {
        return "tcp://" + getHostname() + ":" + getPort();
    }

    /**
     * Return the listen port of this member
     * @return - tcp listen port
     */
    public int getPort() {
        return this.port;
    }

    /**
     * Return the TCP listen host for this member
     * @return IP address or host name
     */
    public byte[] getHost() {
        return host;
    }

    public String getHostname() {

```

```

if ( this.hostname != null ) return hostname;
else {
    try {
        if (DO_DNS_LOOKUPS)
            this.hostname = java.net.InetAddress.getByAddress(host).getHostName();
        else
            this.hostname = org.apache.catalina.tribes.util.Arrays.toString(host);
        return this.hostname;
    } catch ( IOException x ) {
        throw new RuntimeException("Unable to parse hostname.",x);
    }
}

/**
 * Contains information on how long this member has been online.
 * The result is the number of milli seconds this member has been
 * broadcasting its membership to the cluster.
 * @return nr of milliseconds since this member started.
 */
public long getMemberAliveTime() {
    return memberAliveTime;
}

public long getServiceStartTime() {
    return serviceStartTime;
}

public byte[] getUniqueId() {
    return uniqueId;
}

public byte[] getPayload() {
    return payload;
}

public byte[] getCommand() {
    return command;
}

public byte[] getDomain() {
    return domain;
}

public int getSecurePort() {
    return securePort;
}

```

```

public void setMemberAliveTime(long time) {
    memberAliveTime=time;
}

/**
 * String representation of this object
 */
public String toString() {
    StringBuffer buf = new StringBuffer("org.apache.catalina.tribes.membership.MemberImpl");
    buf.append(getName()).append(",");
    buf.append(getHostname()).append(",");
    buf.append(port).append(", alive=");
    buf.append(memberAliveTime).append(",");
    buf.append("id=").append(bToS(this.uniqueId)).append(", ");
    buf.append("payload=").append(bToS(this.payload,8)).append(", ");
    buf.append("command=").append(bToS(this.command,8)).append(", ");
    buf.append("domain=").append(bToS(this.domain,8)).append(", ");
    buf.append("]");
    return buf.toString();
}

public static String bToS(byte[] data) {
    return bToS(data,data.length);
}

public static String bToS(byte[] data, int max) {
    StringBuffer buf = new StringBuffer(4*16);
    buf.append("{");
    for (int i=0; data!=null && i<data.length; i++) {
        buf.append(String.valueOf(data[i])).append(" ");
        if ( i==max ) {
            buf.append("...( "+data.length+"");
            break;
        }
    }
    buf.append("}");
    return buf.toString();
}

/**
 * @see java.lang.Object#hashCode()
 * @return The hash code
 */
public int hashCode() {
    return getHost()[0]+getHost()[1]+getHost()[2]+getHost()[3];
}

/**

```

```

* Returns true if the param o is a McastMember with the same name
* @param o
*/
public boolean equals(Object o) {
    if ( o instanceof MemberImpl ) {
        return Arrays.equals(this.getHost(),((MemberImpl)o).getHost()) &&
            this.getPort() == ((MemberImpl)o).getPort() &&
            Arrays.equals(this.getUniqueId(),((MemberImpl)o).getUniqueId());
    }
    else
        return false;
}

public void setHost(byte[] host) {
    this.host = host;
}

public void setHostname(String host) throws IOException {
    hostname = host;
    this.host = java.net.InetAddress.getByName(host).getAddress();
}

public void setMsgCount(int msgCount) {
    this.msgCount = msgCount;
}

public void setPort(int port) {
    this.port = port;
    this.dataPkg = null;
}

public void setServiceStartTime(long serviceStartTime) {
    this.serviceStartTime = serviceStartTime;
}

public void setUniqueId(byte[] uniqueId) {
    this.uniqueId = uniqueId!=null?uniqueId:new byte[16];
    getData(true,true);
}

public void setPayload(byte[] payload) {
    byte[] oldpayload = this.payload;
    this.payload = payload!=null?payload:new byte[0];
    if ( this.getData(true,true).length > McastServiceImpl.MAX_PACKET_SIZE ) {
        this.payload = oldpayload;
        throw new IllegalArgumentException("Payload is to large for tribes to handle.");
    }
}

```

```

}

public void setCommand(byte[] command) {
    this.command = command!=null?command:new byte[0];
    getData(true,true);
}

public void setDomain(byte[] domain) {
    this.domain = domain!=null?domain:new byte[0];
    getData(true,true);
}

public void setSecurePort(int securePort) {
    this.securePort = securePort;
}

public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
    int length = in.readInt();
    byte[] message = new byte[length];
    in.read(message);
    getMember(message,this);
}

}

public void writeExternal(ObjectOutput out) throws IOException {
    byte[] data = this.getData();
    out.writeInt(data.length);
    out.write(data);
}

}
/*
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 */

```

```

package org.apache.catalina.tribes.tipsis;

import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.io.Serializable;
import java.io.UnsupportedEncodingException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.Map;
import java.util.Set;

import org.apache.catalina.tribes.Channel;
import org.apache.catalina.tribes.ChannelException;
import org.apache.catalina.tribes.ChannelListener;
import org.apache.catalina.tribes.Heartbeat;
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.MembershipListener;
import org.apache.catalina.tribes.group.Response;
import org.apache.catalina.tribes.group.RpcCallback;
import org.apache.catalina.tribes.group.RpcChannel;
import org.apache.catalina.tribes.io.XByteBuffer;
import org.apache.catalina.tribes.membership.MemberImpl;
import org.apache.catalina.tribes.util.Arrays;
import org.apache.juli.logging.Log;
import org.apache.juli.logging.LogFactory;
import java.util.concurrent.ConcurrentHashMap;

/**
 *
 * @author Filip Hanik
 * @version 1.0
 */
public abstract class AbstractReplicatedMap extends ConcurrentHashMap implements RpcCallback,
ChannelListener, MembershipListener, Heartbeat {
    protected static Log log = LogFactory.getLog(AbstractReplicatedMap.class);

    /**
     * The default initial capacity - MUST be a power of two.
     */
    public static final int DEFAULT_INITIAL_CAPACITY = 16;

    /**
     * The load factor used when none specified in constructor.

```

```

    **/
    public static final float DEFAULT_LOAD_FACTOR = 0.75f;

    /**
     * Used to identify the map
     */
    final String chset = "ISO-8859-1";

    //-----
    //      INSTANCE VARIABLES
    //-----
    protected abstract int getStateMessageType();

    /**
     * Timeout for RPC messages, how long we will wait for a reply
     */
    protected transient long rpcTimeout = 5000;
    /**
     * Reference to the channel for sending messages
     */
    protected transient Channel channel;
    /**
     * The RpcChannel to send RPC messages through
     */
    protected transient RpcChannel rpcChannel;
    /**
     * The Map context name makes this map unique, this
     * allows us to have more than one map shared
     * through one channel
     */
    protected transient byte[] mapContextName;
    /**
     * Has the state been transferred
     */
    protected transient boolean stateTransferred = false;
    /**
     * Simple lock object for transfers
     */
    protected transient Object stateMutex = new Object();
    /**
     * A list of members in our map
     */
    protected transient HashMap mapMembers = new HashMap();
    /**
     * Our default send options
     */
    protected transient int channelSendOptions = Channel.SEND_OPTIONS_DEFAULT;

```

```

/**
 * The owner of this map, ala a SessionManager for example
 */
protected transient MapOwner mapOwner;
/**
 * External class loaders if serialization and deserialization is to be performed successfully.
 */
protected transient ClassLoader[] externalLoaders;

/**
 * The node we are currently backing up data to, this index will rotate
 * on a round robin basis
 */
protected transient int currentNode = 0;

/**
 * Since the map keeps internal membership
 * this is the timeout for a ping message to be responded to
 * If a remote map doesn't respond within this timeframe,
 * its considered dead.
 */
protected transient long accessTimeout = 5000;

/**
 * Readable string of the mapContextName value
 */
protected transient String mapname = "";

//-----
//      map owner interface
//-----

public static interface MapOwner {
    public void objectMadePrimay(Object key, Object value);
}

//-----
//      CONSTRUCTORS
//-----

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messags
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 * @param loadFactor float - load factor, see HashMap
 * @param cls - a list of classloaders to be used for deserialization of objects.

```

```

*/
public AbstractReplicatedMap(MapOwner owner,
    Channel channel,
    long timeout,
    String mapContextName,
    int initialCapacity,
    float loadFactor,
    int channelSendOptions,
    ClassLoader[] cls) {
    super(initialCapacity, loadFactor, 15);
    init(owner, channel, mapContextName, timeout, channelSendOptions, cls);
}

/**
 * Helper methods, wraps a single member in an array
 * @param m Member
 * @return Member[]
 */
protected Member[] wrap(Member m) {
    if ( m == null ) return new Member[0];
    else return new Member[] {m};
}

/**
 * Initializes the map by creating the RPC channel, registering itself as a channel listener
 * This method is also responsible for initiating the state transfer
 * @param owner Object
 * @param channel Channel
 * @param mapContextName String
 * @param timeout long
 * @param channelSendOptions int
 * @param cls ClassLoader[]
 */
protected void init(MapOwner owner, Channel channel, String mapContextName, long timeout, int
channelSendOptions, ClassLoader[] cls) {
    log.info("Initializing AbstractReplicatedMap with context name:"+mapContextName);
    this.mapOwner = owner;
    this.externalLoaders = cls;
    this.channelSendOptions = channelSendOptions;
    this.channel = channel;
    this.rpcTimeout = timeout;

    try {
        this.mapname = mapContextName;
        //unique context is more efficient if it is stored as bytes
        this.mapContextName = mapContextName.getBytes(chset);
    } catch (UnsupportedEncodingException x) {

```

```

        log.warn("Unable to encode mapContextName[" + mapContextName + "] using getBytes(" + charset + ") using
default getBytes()", x);
        this.mapContextName = mapContextName.getBytes();
    }
    if ( log.isTraceEnabled() ) log.trace("Created Lazy Map with name:"+mapContextName+",
bytes:"+Arrays.toString(this.mapContextName));

    //create an rpc channel and add the map as a listener
    this.rpcChannel = new RpcChannel(this.mapContextName, channel, this);
    //add this map as a message listener
    this.channel.addChannelListener(this);
    //listen for membership notifications
    this.channel.addMembershipListener(this);

    try {
        //broadcast our map, this just notifies other members of our existence
        broadcast(MapMessage.MSG_INIT, true);
        //transfer state from another map
        transferState();
        //state is transferred, we are ready for messaging
        broadcast(MapMessage.MSG_START, true);
    } catch (ChannelException x) {
        log.warn("Unable to send map start message.");
        throw new RuntimeException("Unable to start replicated map.",x);
    }
}

/**
 * Sends a ping out to all the members in the cluster, not just map members
 * that this map is alive.
 * @param timeout long
 * @throws ChannelException
 */
protected void ping(long timeout) throws ChannelException {
    //send out a map membership message, only wait for the first reply
    MapMessage msg = new MapMessage(this.mapContextName,
        MapMessage.MSG_INIT,
        false,
        null,
        null,
        null,
        channel.getLocalMember(false),
        null);
    if ( channel.getMembers().length > 0 ) {
        //send a ping, wait for all nodes to reply
        Response[] resp = rpcChannel.send(channel.getMembers(),

```

```

        msg, rpcChannel.ALL_REPLY,
        (channelSendOptions),
        (int) accessTimeout);
    for (int i = 0; i < resp.length; i++) {
        memberAlive(resp[i].getSource());
    } //for
}
//update our map of members, expire some if we didn't receive a ping back
synchronized (mapMembers) {
    Iterator it = mapMembers.entrySet().iterator();
    long now = System.currentTimeMillis();
    while ( it.hasNext() ) {
        Map.Entry entry = (Map.Entry)it.next();
        long access = ((Long)entry.getValue()).longValue();
        if ( (now - access) > timeout ) {
            it.remove();
            memberDisappeared( (Member) entry.getKey());
        }
    }
} //synch
}

/**
 * We have received a member alive notification
 * @param member Member
 */
protected void memberAlive(Member member) {
    synchronized (mapMembers) {
        if (!mapMembers.containsKey(member)) {
            mapMemberAdded(member);
        } //end if
        mapMembers.put(member, new Long(System.currentTimeMillis()));
    }
}

/**
 * Helper method to broadcast a message to all members in a channel
 * @param msgtype int
 * @param rpc boolean
 * @throws ChannelException
 */
protected void broadcast(int msgtype, boolean rpc) throws ChannelException {
    //send out a map membership message, only wait for the first reply
    MapMessage msg = new MapMessage(this.mapContextName, msgtype,
        false, null, null, null, channel.getLocalMember(false), null);
    if ( rpc ) {
        Response[] resp = rpcChannel.send(channel.getMembers(), msg, rpcChannel.FIRST_REPLY,
(channelSendOptions),rpcTimeout);
    }
}

```

```

        for (int i = 0; i < resp.length; i++) {
            mapMemberAdded(resp[i].getSource());
            messageReceived(resp[i].getMessage(), resp[i].getSource());
        }
    } else {
        channel.send(channel.getMembers(),msg,channelSendOptions);
    }
}

public void breakdown() {
    finalize();
}

public void finalize() {
    try {broadcast(MapMessage.MSG_STOP,false); }catch ( Exception ignore){}
    //cleanup
    if (this.rpcChannel != null) {
        this.rpcChannel.breakdown();
    }
    if (this.channel != null) {
        this.channel.removeChannelListener(this);
        this.channel.removeMembershipListener(this);
    }
    this.rpcChannel = null;
    this.channel = null;
    this.mapMembers.clear();
    super.clear();
    this.stateTransferred = false;
    this.externalLoaders = null;
}

public int hashCode() {
    return Arrays.hashCode(this.mapContextName);
}

public boolean equals(Object o) {
    if ( o == null ) return false;
    if ( !(o instanceof AbstractReplicatedMap)) return false;
    if ( !(o.getClass().equals(this.getClass())) ) return false;
    AbstractReplicatedMap other = (AbstractReplicatedMap)o;
    return Arrays.equals(mapContextName,other.mapContextName);
}

//-----
//      GROUP COM INTERFACES
//-----

public Member[] getMapMembers(HashMap members) {
    synchronized (members) {

```

```

        Member[] result = new Member[members.size()];
        members.keySet().toArray(result);
        return result;
    }
}

public Member[] getMapMembers() {
    return getMapMembers(this.mapMembers);
}

public Member[] getMapMembersExcl(Member[] exclude) {
    synchronized (mapMembers) {
        HashMap list = (HashMap)mapMembers.clone();
        for (int i=0; i<exclude.length;i++) list.remove(exclude[i]);
        return getMapMembers(list);
    }
}

/**
 * Replicates any changes to the object since the last time
 * The object has to be primary, ie, if the object is a proxy or a backup, it will not be replicated<br>
 * @param complete - if set to true, the object is replicated to its backup
 * if set to false, only objects that implement ReplicatedMapEntry and the isDirty() returns true will
 * be replicated
 */
public void replicate(Object key, boolean complete) {
    if ( log.isTraceEnabled() )
        log.trace("Replicate invoked on key:"+key);
    MapEntry entry = (MapEntry)super.get(key);
    if ( entry == null ) return;
    if ( !entry.isSerializable() ) return;
    if (entry != null && entry.isPrimary() && entry.getBackupNodes() != null && entry.getBackupNodes().length
> 0) {
        Object value = entry.getValue();
        //check to see if we need to replicate this object isDirty()||complete
        boolean repl = complete || ( (value instanceof ReplicatedMapEntry) && ( (ReplicatedMapEntry)
value).isDirty());

        if (!repl) {
            if ( log.isTraceEnabled() )
                log.trace("Not replicating:"+key+", no change made");

            return;
        }
        //check to see if the message is diffable
        boolean diff = ( (value instanceof ReplicatedMapEntry) && ( (ReplicatedMapEntry) value).isDiffable());
        MapMessage msg = null;
        if (diff) {

```

```

ReplicatedMapEntry reentry = (ReplicatedMapEntry)entry.getValue();
try {
    reentry.lock();
    //construct a diff message
    msg = new MapMessage(mapContextName, MapMessage.MSG_BACKUP,
        true, (Serializable) entry.getKey(), null,
        reentry.getDiff(),
        entry.getPrimary(),
        entry.getBackupNodes());
} catch (IOException x) {
    log.error("Unable to diff object. Will replicate the entire object instead.", x);
} finally {
    reentry.unlock();
}

}

if (msg == null) {
    //construct a complete
    msg = new MapMessage(mapContextName, MapMessage.MSG_BACKUP,
        false, (Serializable) entry.getKey(),
        (Serializable) entry.getValue(),
        null, entry.getPrimary(),entry.getBackupNodes());

}

try {
    if ( channel!=null && entry.getBackupNodes()!= null && entry.getBackupNodes().length > 0 ) {
        channel.send(entry.getBackupNodes(), msg, channelSendOptions);
    }
} catch (ChannelException x) {
    log.error("Unable to replicate data.", x);
}

} //end if

}

/**
 * This can be invoked by a periodic thread to replicate out any changes.
 * For maps that don't store objects that implement ReplicatedMapEntry, this
 * method should be used infrequently to avoid large amounts of data transfer
 * @param complete boolean
 */
public void replicate(boolean complete) {
    Iterator i = super.entrySet().iterator();
    while (i.hasNext()) {
        Map.Entry e = (Map.Entry) i.next();
        replicate(e.getKey(), complete);
    } //while
}

```

```

}

public void transferState() {
    try {
        Member[] members = getMapMembers();
        Member backup = members.length > 0 ? (Member) members[0] : null;
        if (backup != null) {
            MapMessage msg = new MapMessage(mapContextName, getStateMessageType(), false,
                null, null, null, null, null);
            Response[] resp = rpcChannel.send(new Member[] {backup}, msg, rpcChannel.FIRST_REPLY,
channelSendOptions, rpcTimeout);
            if (resp.length > 0) {
                synchronized (stateMutex) {
                    msg = (MapMessage) resp[0].getMessage();
                    msg.deserialize(getExternalLoaders());
                    ArrayList list = (ArrayList) msg.getValue();
                    for (int i = 0; i < list.size(); i++) {
                        messageReceived( (Serializable) list.get(i), resp[0].getSource());
                    } //for
                }
            } else {
                log.warn("Transfer state, 0 replies, probably a timeout.");
            }
        }
    } catch (ChannelException x) {
        log.error("Unable to transfer LazyReplicatedMap state.", x);
    } catch (IOException x) {
        log.error("Unable to transfer LazyReplicatedMap state.", x);
    } catch (ClassNotFoundException x) {
        log.error("Unable to transfer LazyReplicatedMap state.", x);
    }
    stateTransferred = true;
}

/**
 * @todo implement state transfer
 * @param msg Serializable
 * @return Serializable - null if no reply should be sent
 */
public Serializable replyRequest(Serializable msg, final Member sender) {
    if (!(msg instanceof MapMessage))return null;
    MapMessage mapmsg = (MapMessage) msg;

    //map init request
    if (mapmsg.getMsgType() == mapmsg.MSG_INIT) {
        mapmsg.setPrimary(channel.getLocalMember(false));
        return mapmsg;
    }
}

```

```

//map start request
if (mapmsg.getMsgType() == mapmsg.MSG_START) {
    mapmsg.setPrimary(channel.getLocalMember(false));
    mapMemberAdded(sender);
    return mapmsg;
}

//backup request
if (mapmsg.getMsgType() == mapmsg.MSG_RETRIEVE_BACKUP) {
    MapEntry entry = (MapEntry)super.get(mapmsg.getKey());
    if (entry == null || (!entry.isSerializable() )return null;
    mapmsg.setValue( (Serializable) entry.getValue());
    return mapmsg;
}

//state transfer request
if (mapmsg.getMsgType() == mapmsg.MSG_STATE || mapmsg.getMsgType() ==
mapmsg.MSG_STATE_COPY) {
    synchronized (stateMutex) { //make sure we dont do two things at the same time
        ArrayList list = new ArrayList();
        Iterator i = super.entrySet().iterator();
        while (i.hasNext()) {
            Map.Entry e = (Map.Entry) i.next();
            MapEntry entry = (MapEntry) super.get(e.getKey());
            if ( entry != null && entry.isSerializable() ) {
                boolean copy = (mapmsg.getMsgType() == mapmsg.MSG_STATE_COPY);
                MapMessage me = new MapMessage(mapContextName,
                    copy?MapMessage.MSG_COPY:MapMessage.MSG_PROXY,
                    false, (Serializable) entry.getKey(), copy?(Serializable) entry.getValue():null, null,
entry.getPrimary(),entry.getBackupNodes());
                list.add(me);
            }
        }
        mapmsg.setValue(list);
        return mapmsg;
    } //synchronized
}

return null;
}

/**
 * If the reply has already been sent to the requesting thread,
 * the rpc callback can handle any data that comes in after the fact.
 * @param msg Serializable

```

```

* @param sender Member
*/
public void leftOver(Serializable msg, Member sender) {
    //left over membership messages
    if (! (msg instanceof MapMessage))return;

    MapMessage mapmsg = (MapMessage) msg;
    try {
        mapmsg.deserialize(getExternalLoaders());
        if (mapmsg.getMsgType() == MapMessage.MSG_START) {
            mapMemberAdded(mapmsg.getPrimary());
        } else if (mapmsg.getMsgType() == MapMessage.MSG_INIT) {
            memberAlive(mapmsg.getPrimary());
        }
    } catch (IOException x ) {
        log.error("Unable to deserialize MapMessage.",x);
    } catch (ClassNotFoundException x ) {
        log.error("Unable to deserialize MapMessage.",x);
    }
}

public void messageReceived(Serializable msg, Member sender) {
    if (! (msg instanceof MapMessage)) return;

    MapMessage mapmsg = (MapMessage) msg;
    if ( log.isTraceEnabled() ) {
        log.trace("Map["+mapname+"] received message:"+mapmsg);
    }

    try {
        mapmsg.deserialize(getExternalLoaders());
    } catch (IOException x) {
        log.error("Unable to deserialize MapMessage.", x);
        return;
    } catch (ClassNotFoundException x) {
        log.error("Unable to deserialize MapMessage.", x);
        return;
    }
    if ( log.isTraceEnabled() )
        log.trace("Map message received from:"+sender.getName()+" msg:"+mapmsg);
    if (mapmsg.getMsgType() == MapMessage.MSG_START) {
        mapMemberAdded(mapmsg.getPrimary());
    }

    if (mapmsg.getMsgType() == MapMessage.MSG_STOP) {
        memberDisappeared(mapmsg.getPrimary());
    }
}

```

```

if (mapmsg.getMsgType() == MapMessage.MSG_PROXY) {
    MapEntry entry = (MapEntry)super.get(mapmsg.getKey());
    if ( entry==null ) {
        entry = new MapEntry(mapmsg.getKey(), mapmsg.getValue());
        entry.setBackup(false);
        entry.setProxy(true);
        entry.setBackupNodes(mapmsg.getBackupNodes());
        entry.setPrimary(mapmsg.getPrimary());
        super.put(entry.getKey(), entry);
    } else {
        entry.setProxy(true);
        entry.setBackup(false);
        entry.setBackupNodes(mapmsg.getBackupNodes());
        entry.setPrimary(mapmsg.getPrimary());
    }
}

if (mapmsg.getMsgType() == MapMessage.MSG_REMOVE) {
    super.remove(mapmsg.getKey());
}

if (mapmsg.getMsgType() == MapMessage.MSG_BACKUP || mapmsg.getMsgType() ==
MapMessage.MSG_COPY) {
    MapEntry entry = (MapEntry)super.get(mapmsg.getKey());
    if (entry == null) {
        entry = new MapEntry(mapmsg.getKey(), mapmsg.getValue());
        entry.setBackup(mapmsg.getMsgType() == MapMessage.MSG_BACKUP);
        entry.setProxy(false);
        entry.setBackupNodes(mapmsg.getBackupNodes());
        entry.setPrimary(mapmsg.getPrimary());
        if (mapmsg.getValue()!=null && mapmsg.getValue() instanceof ReplicatedMapEntry ) {
            ((ReplicatedMapEntry)mapmsg.getValue()).setOwner(getMapOwner());
        }
    } else {
        entry.setBackup(mapmsg.getMsgType() == MapMessage.MSG_BACKUP);
        entry.setProxy(false);
        entry.setBackupNodes(mapmsg.getBackupNodes());
        entry.setPrimary(mapmsg.getPrimary());
        if (entry.getValue() instanceof ReplicatedMapEntry) {
            ReplicatedMapEntry diff = (ReplicatedMapEntry) entry.getValue();
            if (mapmsg.isDiff()) {
                try {
                    diff.lock();
                    diff.applyDiff(mapmsg.getDiffValue(), 0, mapmsg.getDiffValue().length);
                } catch (Exception x) {
                    log.error("Unable to apply diff to key:" + entry.getKey(), x);
                } finally {
                    diff.unlock();
                }
            }
        }
    }
}

```

```

        }
    } else {
        if ( mapmsg.getValue()!=null ) entry.setValue(mapmsg.getValue());
        ((ReplicatedMapEntry)entry.getValue()).setOwner(getMapOwner());
    } //end if
} else if ( mapmsg.getValue() instanceof ReplicatedMapEntry ) {
    ReplicatedMapEntry re = (ReplicatedMapEntry)mapmsg.getValue();
    re.setOwner(getMapOwner());
    entry.setValue(re);
} else {
    if ( mapmsg.getValue()!=null ) entry.setValue(mapmsg.getValue());
} //end if
} //end if
super.put(entry.getKey(), entry);
} //end if
}

```

```

public boolean accept(Serializable msg, Member sender) {
    boolean result = false;
    if (msg instanceof MapMessage) {
        if ( log.isTraceEnabled() ) log.trace("Map["+mapname+"] accepting..." +msg);
        result = Arrays.equals(mapContextName, ( (MapMessage) msg).getMapId());
        if ( log.isTraceEnabled() ) log.trace("Msg["+mapname+"] accepted["+result+"]...." +msg);
    }
    return result;
}

```

```

public void mapMemberAdded(Member member) {
    if ( member.equals(getChannel().getLocalMember(false)) ) return;
    boolean memberAdded = false;
    //select a backup node if we don't have one
    synchronized (mapMembers) {
        if (!mapMembers.containsKey(member) ) {
            mapMembers.put(member, new Long(System.currentTimeMillis()));
            memberAdded = true;
        }
    }
    if ( memberAdded ) {
        synchronized (stateMutex) {
            Iterator i = super.entrySet().iterator();
            while (i.hasNext()) {
                Map.Entry e = (Map.Entry) i.next();
                MapEntry entry = (MapEntry) super.get(e.getKey());
                if ( entry == null ) continue;
                if (entry.isPrimary() && (entry.getBackupNodes() == null || entry.getBackupNodes().length == 0)) {
                    try {
                        Member[] backup = publishEntryInfo(entry.getKey(), entry.getValue());
                        entry.setBackupNodes(backup);
                    }
                }
            }
        }
    }
}

```

```

        entry.setPrimary(channel.getLocalMember(false));
    } catch (ChannelException x) {
        log.error("Unable to select backup node.", x);
    } //catch
    } //end if
} //while
} //synchronized
} //end if
}

public boolean inSet(Member m, Member[] set) {
    if ( set == null ) return false;
    boolean result = false;
    for (int i=0; i<set.length && (!result); i++)
        if ( m.equals(set[i]) ) result = true;
    return result;
}

public Member[] excludeFromSet(Member[] mbrs, Member[] set) {
    ArrayList result = new ArrayList();
    for (int i=0; i<set.length; i++) {
        boolean include = true;
        for (int j=0; j<mbrs.length; j++)
            if ( mbrs[j].equals(set[i]) ) include = false;
        if ( include ) result.add(set[i]);
    }
    return (Member[])result.toArray(new Member[result.size()]);
}

public void memberAdded(Member member) {
    //do nothing
}

public void memberDisappeared(Member member) {
    boolean removed = false;
    synchronized (mapMembers) {
        removed = (mapMembers.remove(member) != null );
        if (!removed) {
            if (log.isDebugEnabled()) log.debug("Member["+member+"] disappeared, but was not present in the
map.");
            return; //the member was not part of our map.
        }
    }
}

Iterator i = super.entrySet().iterator();
while (i.hasNext()) {
    Map.Entry e = (Map.Entry) i.next();
    MapEntry entry = (MapEntry) super.get(e.getKey());
}

```

```

if (entry==null) continue;
if (entry.isPrimary() && inSet(member,entry.getBackupNodes())) {
    if (log.isDebugEnabled()) log.debug("[1] Primary choosing a new backup");
    try {
        Member[] backup = publishEntryInfo(entry.getKey(), entry.getValue());
        entry.setBackupNodes(backup);
        entry.setPrimary(channel.getLocalMember(false));
    } catch (ChannelException x) {
        log.error("Unable to relocate[" + entry.getKey() + "] to a new backup node", x);
    }
} else if (member.equals(entry.getPrimary())) {
    if (log.isDebugEnabled()) log.debug("[2] Primary disappeared");
    entry.setPrimary(null);
} //end if

if ( entry.isProxy() &&
    entry.getPrimary() == null &&
    entry.getBackupNodes()!=null &&
    entry.getBackupNodes().length == 1 &&
    entry.getBackupNodes()[0].equals(member) ) {
    //remove proxies that have no backup nor primaries
    if (log.isDebugEnabled()) log.debug("[3] Removing orphaned proxy");
    i.remove();
} else if ( entry.getPrimary() == null &&
    entry.isBackup() &&
    entry.getBackupNodes()!=null &&
    entry.getBackupNodes().length == 1 &&
    entry.getBackupNodes()[0].equals(channel.getLocalMember(false)) ) {
    try {
        if (log.isDebugEnabled()) log.debug("[4] Backup becoming primary");
        entry.setPrimary(channel.getLocalMember(false));
        entry.setBackup(false);
        entry.setProxy(false);
        Member[] backup = publishEntryInfo(entry.getKey(), entry.getValue());
        entry.setBackupNodes(backup);
        if ( mapOwner!=null ) mapOwner.objectMadePrimay(entry.getKey(),entry.getValue());

    } catch (ChannelException x) {
        log.error("Unable to relocate[" + entry.getKey() + "] to a new backup node", x);
    }
}

} //while
}

public int getNextBackupIndex() {
    int size = mapMembers.size();
    if (mapMembers.size() == 0)return -1;
}

```

```

    int node = currentNode++;
    if (node >= size) {
        node = 0;
        currentNode = 0;
    }
    return node;
}

public Member getNextBackupNode() {
    Member[] members = getMapMembers();
    int node = getNextBackupIndex();
    if ( members.length == 0 || node== -1) return null;
    if ( node >= members.length ) node = 0;
    return members[node];
}

protected abstract Member[] publishEntryInfo(Object key, Object value) throws ChannelException;

public void heartbeat() {
    try {
        ping(accessTimeout);
    } catch ( Exception x ) {
        log.error("Unable to send AbstractReplicatedMap.ping message",x);
    }
}

//-----
//      METHODS TO OVERRIDE
//-----

/**
 * Removes an object from this map, it will also remove it from
 *
 * @param key Object
 * @return Object
 */
public Object remove(Object key) {
    return remove(key,true);
}

public Object remove(Object key, boolean notify) {
    MapEntry entry = (MapEntry)super.remove(key);

    try {
        if (getMapMembers().length > 0 && notify) {
            MapMessage msg = new MapMessage(getMapContextName(), MapMessage.MSG_REMOVE, false,
            (Serializable) key, null, null, null,null);
            getChannel().send(getMapMembers(), msg, getChannelSendOptions());
        }
    } catch ( ChannelException x ) {

```

```

        log.error("Unable to replicate out data for a LazyReplicatedMap.remove operation",x);
    }
    return entry!=null?entry.getValue():null;
}

public MapEntry getInternal(Object key) {
    return (MapEntry)super.get(key);
}

public Object get(Object key) {
    MapEntry entry = (MapEntry)super.get(key);
    if (log.isTraceEnabled()) log.trace("Requesting id:"+key+" entry:"+entry);
    if ( entry == null ) return null;
    if ( !entry.isPrimary() ) {
        //if the message is not primary, we need to retrieve the latest value
        try {
            Member[] backup = null;
            MapMessage msg = null;
            if ( !entry.isBackup() ) {
                //make sure we don't retrieve from ourselves
                msg = new MapMessage(getMapContextName(), MapMessage.MSG_RETRIEVE_BACKUP, false,
                    (Serializable) key, null, null, null,null);
                Response[] resp = getRpcChannel().send(entry.getBackupNodes(),msg,
this.getRpcChannel().FIRST_REPLY, Channel.SEND_OPTIONS_DEFAULT, getRpcTimeout());
                if (resp == null || resp.length == 0) {
                    //no responses
                    log.warn("Unable to retrieve remote object for key:" + key);
                    return null;
                }
                msg = (MapMessage) resp[0].getMessage();
                msg.deserialize(getExternalLoaders());
                backup = entry.getBackupNodes();
                if ( entry.getValue() instanceof ReplicatedMapEntry ) {
                    ReplicatedMapEntry val = (ReplicatedMapEntry)entry.getValue();
                    val.setOwner(getMapOwner());
                }
                if ( msg.getValue()!=null ) entry.setValue(msg.getValue());
            }
            if (entry.isBackup()) {
                //select a new backup node
                backup = publishEntryInfo(key, entry.getValue());
            } else if ( entry.isProxy() ) {
                //invalidate the previous primary
                msg = new
MapMessage(getMapContextName(),MapMessage.MSG_PROXY,false,(Serializable)key,null,null,channel.getLocal
Member(false),backup);
                Member[] dest = getMapMembersExcl(backup);
                if ( dest!=null && dest.length >0) {

```

```

        getChannel().send(dest, msg, getChannelSendOptions());
    }
}
entry.setPrimary(channel.getLocalMember(false));
entry.setBackupNodes(backup);
entry.setBackup(false);
entry.setProxy(false);

} catch (Exception x) {
    log.error("Unable to replicate out data for a LazyReplicatedMap.get operation", x);
    return null;
}
}
if (log.isTraceEnabled()) log.trace("Requesting id:"+key+" result:"+entry.getValue());
if ( entry.getValue() != null && entry.getValue() instanceof ReplicatedMapEntry ) {
    ReplicatedMapEntry val = (ReplicatedMapEntry)entry.getValue();
    //hack, somehow this is not being set above
    val.setOwner(getMapOwner());
}
return entry.getValue();
}

protected void printMap(String header) {
    try {
        System.out.println("\nDEBUG MAP:"+header);
        System.out.println("Map["+ new String(mapContextName, charset) + ", Map Size:" + super.size());
        Member[] mbrs = getMapMembers();
        for ( int i=0; i<mbrs.length;i++ ) {
            System.out.println("Mbr["+(i+1)+"="+mbrs[i].getName());
        }
        Iterator i = super.entrySet().iterator();
        int cnt = 0;

        while (i.hasNext()) {
            Map.Entry e = (Map.Entry) i.next();
            System.out.println( (++cnt) + " . " + super.get(e.getKey()));
        }
        System.out.println("EndMap]\n\n");
    } catch ( Exception ignore) {
        ignore.printStackTrace();
    }
}

/**
 * Returns true if the key has an entry in the map.

```

```

* The entry can be a proxy or a backup entry, invoking <code>get(key)</code>
* will make this entry primary for the group
* @param key Object
* @return boolean
*/
public boolean containsKey(Object key) {
    return super.containsKey(key);
}

public Object put(Object key, Object value) {
    return put(key,value,true);
}

public Object put(Object key, Object value, boolean notify) {
    MapEntry entry = new MapEntry(key,value);
    entry.setBackup(false);
    entry.setProxy(false);
    entry.setPrimary(channel.getLocalMember(false));

    Object old = null;

    //make sure that any old values get removed
    if ( containsKey(key) ) old = remove(key);
    try {
        if ( notify ) {
            Member[] backup = publishEntryInfo(key, value);
            entry.setBackupNodes(backup);
        }
    } catch (ChannelException x) {
        log.error("Unable to replicate out data for a LazyReplicatedMap.put operation", x);
    }
    super.put(key,entry);
    return old;
}

/**
* Copies all values from one map to this instance
* @param m Map
*/
public void putAll(Map m) {
    Iterator i = m.entrySet().iterator();
    while ( i.hasNext() ) {
        Map.Entry entry = (Map.Entry)i.next();
        put(entry.getKey(),entry.getValue());
    }
}

```

```

public void clear() {
    clear(true);
}

public void clear(boolean notify) {
    if ( notify ) {
        //only delete active keys
        Iterator keys = keySet().iterator();
        while (keys.hasNext())
            remove(keys.next());
    } else {
        super.clear();
    }
}

public boolean containsValue(Object value) {
    if ( value == null ) {
        return super.containsValue(value);
    } else {
        Iterator i = super.entrySet().iterator();
        while (i.hasNext()) {
            Map.Entry e = (Map.Entry) i.next();
            MapEntry entry = (MapEntry) super.get(e.getKey());
            if (entry!=null && entry.isPrimary() && value.equals(entry.getValue())) return true;
        }//while
        return false;
    }//end if
}

public Object clone() {
    throw new UnsupportedOperationException("This operation is not valid on a replicated map");
}

/**
 * Returns the entire contents of the map
 * Map.Entry.getValue() will return a LazyReplicatedMap.MapEntry object containing all the information
 * about the object.
 * @return Set
 */
public Set entrySetFull() {
    return super.entrySet();
}

public Set keySetFull() {
    return super.keySet();
}

public int sizeFull() {

```

```

    return super.size();
}

public Set entrySet() {
    LinkedHashSet set = new LinkedHashSet(super.size());
    Iterator i = super.entrySet().iterator();
    while ( i.hasNext() ) {
        Map.Entry e = (Map.Entry)i.next();
        Object key = e.getKey();
        MapEntry entry = (MapEntry)super.get(key);
        if ( entry != null && entry.isPrimary() ) set.add(entry.getValue());
    }
    return Collections.unmodifiableSet(set);
}

public Set keySet() {
    //todo implement
    //should only return keys where this is active.
    LinkedHashSet set = new LinkedHashSet(super.size());
    Iterator i = super.entrySet().iterator();
    while ( i.hasNext() ) {
        Map.Entry e = (Map.Entry)i.next();
        Object key = e.getKey();
        MapEntry entry = (MapEntry)super.get(key);
        if ( entry!=null && entry.isPrimary() ) set.add(key);
    }
    return Collections.unmodifiableSet(set);
}

public int size() {
    //todo, implement a counter variable instead
    //only count active members in this node
    int counter = 0;
    Iterator it = super.entrySet().iterator();
    while (it!=null && it.hasNext() ) {
        Map.Entry e = (Map.Entry) it.next();
        if ( e != null ) {
            MapEntry entry = (MapEntry) super.get(e.getKey());
            if (entry!=null && entry.isPrimary() && entry.getValue() != null) counter++;
        }
    }
    return counter;
}

protected boolean removeEldestEntry(Map.Entry eldest) {
    return false;
}

```

```

    }

    public boolean isEmpty() {
        return size()==0;
    }

    public Collection values() {
        ArrayList values = new ArrayList();
        Iterator i = super.entrySet().iterator();
        while ( i.hasNext() ) {
            Map.Entry e = (Map.Entry)i.next();
            MapEntry entry = (MapEntry)super.get(e.getKey());
            if (entry!=null && entry.isPrimary() && entry.getValue()!=null) values.add(entry.getValue());
        }
        return Collections.unmodifiableCollection(values);
    }

//-----
//      Map Entry class
//-----

    public static class MapEntry implements Map.Entry {
        private boolean backup;
        private boolean proxy;
        private Member[] backupNodes;
        private Member primary;
        private Object key;
        private Object value;

        public MapEntry(Object key, Object value) {
            setKey(key);
            setValue(value);
        }

        public boolean isKeySerializable() {
            return (key == null) || (key instanceof Serializable);
        }

        public boolean isValueSerializable() {
            return (value==null) || (value instanceof Serializable);
        }

        public boolean isSerializable() {
            return isKeySerializable() && isValueSerializable();
        }

        public boolean isBackup() {

```

```

        return backup;
    }

    public void setBackup(boolean backup) {
        this.backup = backup;
    }

    public boolean isProxy() {
        return proxy;
    }

    public boolean isPrimary() {
        return ( !proxy ) && ( !backup );
    }

    public void setProxy(boolean proxy) {
        this.proxy = proxy;
    }

    public boolean isDiffable() {
        return ( value instanceof ReplicatedMapEntry ) &&
            ( (ReplicatedMapEntry) value ).isDiffable();
    }

    public void setBackupNodes(Member[] nodes) {
        this.backupNodes = nodes;
    }

    public Member[] getBackupNodes() {
        return backupNodes;
    }

    public void setPrimary(Member m) {
        primary = m;
    }

    public Member getPrimary() {
        return primary;
    }

    public Object getValue() {
        return value;
    }

    public Object setValue(Object value) {
        Object old = this.value;
        this.value = value;
        return old;
    }

```

```

    }

    public Object getKey() {
        return key;
    }

    public Object setKey(Object key) {
        Object old = this.key;
        this.key = key;
        return old;
    }

    public int hashCode() {
        return key.hashCode();
    }

    public boolean equals(Object o) {
        return key.equals(o);
    }

    /**
     * apply a diff, or an entire object
     * @param data byte[]
     * @param offset int
     * @param length int
     * @param diff boolean
     * @throws IOException
     * @throws ClassNotFoundException
     */
    public void apply(byte[] data, int offset, int length, boolean diff) throws IOException, ClassNotFoundException
    {
        if (isDiffable() && diff) {
            ReplicatedMapEntry reentry = (ReplicatedMapEntry) value;
            try {
                reentry.lock();
                reentry.applyDiff(data, offset, length);
            } finally {
                reentry.unlock();
            }
        } else if (length == 0) {
            value = null;
            proxy = true;
        } else {
            value = XByteBuffer.deserialize(data, offset, length);
        }
    }

    public String toString() {

```

```

        StringBuffer buf = new StringBuffer("MapEntry[key:");
        buf.append(getKey()).append("; ");
        buf.append("value:").append(getValue()).append("; ");
        buf.append("primary:").append(isPrimary()).append("; ");
        buf.append("backup:").append(isBackup()).append("; ");
        buf.append("proxy:").append(isProxy()).append(";]");
        return buf.toString();
    }

}

//-----
//      map message to send to and from other maps
//-----

public static class MapMessage implements Serializable {
    public static final int MSG_BACKUP = 1;
    public static final int MSG_RETRIEVE_BACKUP = 2;
    public static final int MSG_PROXY = 3;
    public static final int MSG_REMOVE = 4;
    public static final int MSG_STATE = 5;
    public static final int MSG_START = 6;
    public static final int MSG_STOP = 7;
    public static final int MSG_INIT = 8;
    public static final int MSG_COPY = 9;
    public static final int MSG_STATE_COPY = 10;

    private byte[] mapId;
    private int msgtype;
    private boolean diff;
    private transient Serializable key;
    private transient Serializable value;
    private byte[] valuedata;
    private byte[] keydata;
    private byte[] diffvalue;
    private Member[] nodes;
    private Member primary;

    public String toString() {
        StringBuffer buf = new StringBuffer("MapMessage[context=");
        buf.append(new String(mapId));
        buf.append("; type=");
        buf.append(getTypeDesc());
        buf.append("; key=");
        buf.append(key);
        buf.append("; value=");
        buf.append(value);
        return buf.toString();
    }
}

```

```

}

public String getTypeDesc() {
    switch (msgtype) {
        case MSG_BACKUP: return "MSG_BACKUP";
        case MSG_RETRIEVE_BACKUP: return "MSG_RETRIEVE_BACKUP";
        case MSG_PROXY: return "MSG_PROXY";
        case MSG_REMOVE: return "MSG_REMOVE";
        case MSG_STATE: return "MSG_STATE";
        case MSG_START: return "MSG_START";
        case MSG_STOP: return "MSG_STOP";
        case MSG_INIT: return "MSG_INIT";
        case MSG_STATE_COPY: return "MSG_STATE_COPY";
        case MSG_COPY: return "MSG_COPY";
        default : return "UNKNOWN";
    }
}

public MapMessage() {}

public MapMessage(byte[] mapId,int msgtype, boolean diff,
    Serializable key, Serializable value,
    byte[] diffvalue, Member primary, Member[] nodes) {
    this.mapId = mapId;
    this.msgtype = msgtype;
    this.diff = diff;
    this.key = key;
    this.value = value;
    this.diffvalue = diffvalue;
    this.nodes = nodes;
    this.primary = primary;
    setValue(value);
    setKey(key);
}

public void deserialize(ClassLoader[] cls) throws IOException, ClassNotFoundException {
    key(cls);
    value(cls);
}

public int getMsgType() {
    return msgtype;
}

public boolean isDiff() {
    return diff;
}

```

```

public Serializable getKey() {
    try {
        return key(null);
    } catch ( Exception x ) {
        log.error("Deserialization error of the MapMessage.key",x);
        return null;
    }
}

public Serializable key(ClassLoader[] cls) throws IOException, ClassNotFoundException {
    if ( key!=null ) return key;
    if ( keydata == null || keydata.length == 0 ) return null;
    key = XByteBuffer.deserialize(keydata,0,keydata.length,cls);
    keydata = null;
    return key;
}

public byte[] getKeyData() {
    return keydata;
}

public Serializable getValue() {
    try {
        return value(null);
    } catch ( Exception x ) {
        log.error("Deserialization error of the MapMessage.value",x);
        return null;
    }
}

public Serializable value(ClassLoader[] cls) throws IOException, ClassNotFoundException {
    if ( value!=null ) return value;
    if ( valuedata == null || valuedata.length == 0 ) return null;
    value = XByteBuffer.deserialize(valuedata,0,valuedata.length,cls);
    valuedata = null;;
    return value;
}

public byte[] getValueData() {
    return valuedata;
}

public byte[] getDiffValue() {
    return diffvalue;
}

public Member[] getBackupNodes() {
    return nodes;
}

```

```

}

private void setBackUpNodes(Member[] nodes) {
    this.nodes = nodes;
}

public Member getPrimary() {
    return primary;
}

private void setPrimary(Member m) {
    primary = m;
}

public byte[] getMapId() {
    return mapId;
}

public void setValue(Serializable value) {
    try {
        if ( value != null ) valuedata = XByteBuffer.serialize(value);
        this.value = value;
    } catch ( IOException x ) {
        throw new RuntimeException(x);
    }
}

public void setKey(Serializable key) {
    try {
        if (key != null) keydata = XByteBuffer.serialize(key);
        this.key = key;
    } catch (IOException x) {
        throw new RuntimeException(x);
    }
}

protected Member[] readMembers(ObjectInput in) throws IOException, ClassNotFoundException {
    int nodecount = in.readInt();
    Member[] members = new Member[nodecount];
    for ( int i=0; i<members.length; i++ ) {
        byte[] d = new byte[in.readInt()];
        in.read(d);
        if (d.length > 0) members[i] = MemberImpl.getMember(d);
    }
    return members;
}

protected void writeMembers(ObjectOutput out, Member[] members) throws IOException {

```

```

    if ( members == null ) members = new Member[0];
    out.writeInt(members.length);
    for (int i=0; i<members.length; i++ ) {
        if ( members[i] != null ) {
            byte[] d = members[i] != null ? ( (MemberImpl)members[i]).getData(false) : new byte[0];
            out.writeInt(d.length);
            out.write(d);
        }
    }
}

/**
 * shallow clone
 * @return Object
 */
public Object clone() {
    MapMessage msg = new MapMessage(this.mapId, this.msgtype, this.diff, this.key, this.value, this.diffvalue,
this.primary, this.nodes);
    msg.keydata = this.keydata;
    msg.valuedata = this.valuedata;
    return msg;
}
} //MapMessage

public Channel getChannel() {
    return channel;
}

public byte[] getMapContextName() {
    return mapContextName;
}

public RpcChannel getRpcChannel() {
    return rpcChannel;
}

public long getRpcTimeout() {
    return rpcTimeout;
}

public Object getStateMutex() {
    return stateMutex;
}

public boolean isStateTransferred() {
    return stateTransferred;
}

```

```

}

public MapOwner getMapOwner() {
    return mapOwner;
}

public ClassLoader[] getExternalLoaders() {
    return externalLoaders;
}

public int getChannelSendOptions() {
    return channelSendOptions;
}

public long getAccessTimeout() {
    return accessTimeout;
}

public void setMapOwner(MapOwner mapOwner) {
    this.mapOwner = mapOwner;
}

public void setExternalLoaders(ClassLoader[] externalLoaders) {
    this.externalLoaders = externalLoaders;
}

public void setChannelSendOptions(int channelSendOptions) {
    this.channelSendOptions = channelSendOptions;
}

public void setAccessTimeout(long accessTimeout) {
    this.accessTimeout = accessTimeout;
}

}
/*
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```

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*/

```
package org.apache.catalina.tribes.tipis;
```

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

```
import org.apache.catalina.tribes.Channel;
```

```
import org.apache.catalina.tribes.ChannelException;
```

```
import org.apache.catalina.tribes.ChannelListener;
```

```
import org.apache.catalina.tribes.Member;
```

```
import org.apache.catalina.tribes.MembershipListener;
```

```
import org.apache.catalina.tribes.group.RpcCallback;
```

```
import org.apache.catalina.tribes.util.Arrays;
```

```
import org.apache.catalina.tribes.UniqueId;
```

```
import org.apache.catalina.tribes.tipis.AbstractReplicatedMap.MapOwner;
```

```
/**
```

* A smart implementation of a stateful replicated map. uses primary/secondary backup strategy.

* One node is always the primary and one node is always the backup.

* This map is synchronized across a cluster, and only has one backup member.

* A perfect usage for this map would be a session map for a session manager in a clustered environment.

* The only way to modify this list is to use the <code>put, putAll, remove</code> methods.

* <code>entrySet, entrySetFull, keySet, keySetFull, returns all non modifiable sets.

* If objects (values) in the map change without invoking <code>put()</code> or <code>remove()</code>

* the data can be distributed using two different methods:

* <code>replicate(boolean)</code> and <code>replicate(Object, boolean)</code>

* These two methods are very important two understand. The map can work with two set of value objects:

* 1. Serializable - the entire object gets serialized each time it is replicated

* 2. ReplicatedMapEntry - this interface allows for a isDirty() flag and to replicate diffs if desired.

* Implementing the <code>ReplicatedMapEntry</code> interface allows you to decide what objects

* get replicated and how much data gets replicated each time.

* If you implement a smart AOP mechanism to detect changes in underlying objects, you can replicate

* only those changes by implementing the ReplicatedMapEntry interface, and return true when isDiffable()

* is invoked.

*

* This map implementation doesn't have a background thread running to replicate changes.

* If you do have changes without invoking put/remove then you need to invoke one of the following methods:

*

* <code>replicate(Object,boolean)</code> - replicates only the object that belongs to the key

* <code>replicate(boolean)</code> - Scans the entire map for changes and replicates data

*

* the <code>boolean</code> value in the <code>replicate</code> method used to decide

* whether to only replicate objects that implement the <code>ReplicatedMapEntry</code> interface

* or to replicate all objects. If an object doesn't implement the <code>ReplicatedMapEntry</code> interface

* each time the object gets replicated the entire object gets serialized, hence a call to <code>replicate(true)</code>

* will replicate all objects in this map that are using this node as primary.

*

```

* <br><br><b>REMEMBER TO CALL <code>breakdown()</code> or <code>finalize()</code> when you are done
with the map to
* avoid memory leaks.<br><br>
* @todo implement periodic sync/transfer thread
* @author Filip Hanik
* @version 1.0
*/

public class LazyReplicatedMap extends AbstractReplicatedMap
    implements RpcCallback, ChannelListener, MembershipListener {
    protected static org.apache.juli.logging.Log log =
org.apache.juli.logging.LogFactory.getLog(LazyReplicatedMap.class);

//-----
//      CONSTRUCTORS / DESTRUCTORS
//-----
/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 * @param loadFactor float - load factor, see HashMap
 */
    public LazyReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity, float loadFactor, ClassLoader[] cls) {
        super(owner,channel,timeout,mapContextName,initialCapacity,loadFactor,
Channel.SEND_OPTIONS_DEFAULT,cls);
    }

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 */
    public LazyReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity, ClassLoader[] cls) {
        super(owner, channel,timeout,mapContextName,initialCapacity,
LazyReplicatedMap.DEFAULT_LOAD_FACTOR, Channel.SEND_OPTIONS_DEFAULT, cls);
    }

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages

```

```

    * @param mapContextName String - unique name for this map, to allow multiple maps per channel
    */
    public LazyReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName,
        ClassLoader[] cls) {
        super(owner, channel, timeout, mapContextName,
            LazyReplicatedMap.DEFAULT_INITIAL_CAPACITY, LazyReplicatedMap.DEFAULT_LOAD_FACTOR, Channel
            l.SEND_OPTIONS_DEFAULT, cls);
    }

```

```

//-----
//      METHODS TO OVERRIDE
//-----
protected int getStateMessageType() {
    return AbstractReplicatedMap.MapMessage.MSG_STATE;
}

/**
 * publish info about a map pair (key/value) to other nodes in the cluster
 * @param key Object
 * @param value Object
 * @return Member - the backup node
 * @throws ChannelException
 */
protected Member[] publishEntryInfo(Object key, Object value) throws ChannelException {
    if (! (key instanceof Serializable && value instanceof Serializable) ) return new Member[0];
    Member[] members = getMapMembers();
    int firstIdx = getNextBackupIndex();
    int nextIdx = firstIdx;
    Member[] backup = new Member[0];

    //there are no backups
    if ( members.length == 0 || firstIdx == -1 ) return backup;

    boolean success = false;
    do {
        //select a backup node
        Member next = members[nextIdx];

        //increment for the next round of back up selection
        nextIdx = nextIdx + 1;
        if ( nextIdx >= members.length ) nextIdx = 0;

        if (next == null) {
            continue;

```

```

    }
    MapMessage msg = null;
    try {
        backup = wrap(next);
        //publish the backup data to one node
        msg = new MapMessage(getMapContextName(), MapMessage.MSG_BACKUP, false,
            (Serializable) key, (Serializable) value, null, channel.getLocalMember(false), backup);
        if ( log.isTraceEnabled() )
            log.trace("Publishing backup data:"+msg+" to: "+next.getName());
        UniqueId id = getChannel().send(backup, msg, getChannelSendOptions());
        if ( log.isTraceEnabled() )
            log.trace("Data published:"+msg+" msg Id:"+id);
        //we published out to a backup, mark the test success
        success = true;
    }catch ( ChannelException x ) {
        log.error("Unable to replicate backup key:"+key+" to backup:"+next+". Reason:"+x.getMessage(),x);
    }
    try {
        //publish the data out to all nodes
        Member[] proxies = excludeFromSet(backup, getMapMembers());
        if (success && proxies.length > 0 ) {
            msg = new MapMessage(getMapContextName(), MapMessage.MSG_PROXY, false,
                (Serializable) key, null, null, channel.getLocalMember(false), backup);
            if ( log.isTraceEnabled() )
                log.trace("Publishing proxy data:"+msg+" to: "+Arrays.toString(proxies));
            getChannel().send(proxies, msg, getChannelSendOptions());
        }
    }catch ( ChannelException x ) {
        //log the error, but proceed, this should only happen if a node went down,
        //and if the node went down, then it can't receive the message, the others
        //should still get it.
        log.error("Unable to replicate proxy key:"+key+" to backup:"+next+". Reason:"+x.getMessage(),x);
    }
    } while ( !success && (firstIdx!=nextIdx));
    return backup;
}

```

```

}

```

```

/*

```

```

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```

```

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*/
package org.apache.catalina.tribes.tipis;

import java.io.Serializable;

import org.apache.catalina.tribes.Channel;
import org.apache.catalina.tribes.ChannelException;
import org.apache.catalina.tribes.ChannelListener;
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.MembershipListener;
import org.apache.catalina.tribes.group.RpcCallback;
import org.apache.catalina.tribes.tipis.AbstractReplicatedMap.MapOwner;

/**
 * All-to-all replication for a hash map implementation. Each node in the cluster will carry an identical
 * copy of the map.<br><br>
 * This map implementation doesn't have a background thread running to replicate changes.
 * If you do have changes without invoking put/remove then you need to invoke one of the following methods:
 * <ul>
 * <li><code>replicate(Object,boolean)</code> - replicates only the object that belongs to the key</li>
 * <li><code>replicate(boolean)</code> - Scans the entire map for changes and replicates data</li>
 * </ul>
 * the <code>boolean</code> value in the <code>replicate</code> method used to decide
 * whether to only replicate objects that implement the <code>ReplicatedMapEntry</code> interface
 * or to replicate all objects. If an object doesn't implement the <code>ReplicatedMapEntry</code> interface
 * each time the object gets replicated the entire object gets serialized, hence a call to <code>replicate(true)</code>
 * will replicate all objects in this map that are using this node as primary.
 *
 * <br><br><b>REMBER TO CALL <code>breakdown()</code> or <code>finalize()</code> when you are done
 with the map to
 * avoid memory leaks.<br><br>
 * @todo implement periodic sync/transfer thread
 * @author Filip Hanik
 * @version 1.0
 *
 * @todo memberDisappeared, should do nothing except change map membership
 * by default it relocates the primary objects
 */
public class ReplicatedMap extends AbstractReplicatedMap implements RpcCallback, ChannelListener,

```

```

MembershipListener {

    protected static org.apache.juli.logging.Log log =
org.apache.juli.logging.LogFactory.getLog(ReplicatedMap.class);

//-----
//      CONSTRUCTORS / DESTRUCTORS
//-----
/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 * @param loadFactor float - load factor, see HashMap
 */
    public ReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity,float loadFactor, ClassLoader[] cls) {
        super(owner,channel, timeout, mapContextName, initialCapacity, loadFactor,
Channel.SEND_OPTIONS_DEFAULT, cls);
    }

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 */
    public ReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity, ClassLoader[] cls) {
        super(owner,channel, timeout, mapContextName, initialCapacity,
AbstractReplicatedMap.DEFAULT_LOAD_FACTOR,Channel.SEND_OPTIONS_DEFAULT, cls);
    }

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 */
    public ReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, ClassLoader[]
cls) {
        super(owner, channel, timeout, mapContextName,AbstractReplicatedMap.DEFAULT_INITIAL_CAPACITY,
AbstractReplicatedMap.DEFAULT_LOAD_FACTOR, Channel.SEND_OPTIONS_DEFAULT, cls);
    }

//-----

```

```

//      METHODS TO OVERRIDE
//-----
protected int getStateMessageType() {
    return AbstractReplicatedMap.MapMessage.MSG_STATE_COPY;
}

/**
 * publish info about a map pair (key/value) to other nodes in the cluster
 * @param key Object
 * @param value Object
 * @return Member - the backup node
 * @throws ChannelException
 */
protected Member[] publishEntryInfo(Object key, Object value) throws ChannelException {
    if (! (key instanceof Serializable && value instanceof Serializable) ) return new Member[0];
    //select a backup node
    Member[] backup = getMapMembers();

    if (backup == null || backup.length == 0) return null;

    //publish the data out to all nodes
    MapMessage msg = new MapMessage(getMapContextName(), MapMessage.MSG_COPY, false,
        (Serializable) key, (Serializable) value, null,channel.getLocalMember(false), backup);

    getChannel().send(getMapMembers(), msg, getChannelSendOptions());

    return backup;
}

}

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 * limitations under the License.
 */
package org.apache.catalina.tribes.tipis;

```

```

import java.io.IOException;
import java.io.Serializable;

/**
 *
 * For smarter replication, an object can implement this interface to replicate diffs<br>
 * The replication logic will call the methods in the following order:<br>
 * <code>
 * 1. if ( entry.isDirty() ) <br>
 *   try {
 * 2.   entry.lock();<br>
 * 3.   byte[] diff = entry.getDiff();<br>
 * 4.   entry.reset();<br>
 *   } finally {<br>
 * 5.   entry.unlock();<br>
 *   }<br>
 * }<br>
 * </code>
 * <br>
 * <br>
 * When the data is deserialized the logic is called in the following order<br>
 * <code>
 * 1. ReplicatedMapEntry entry = (ReplicatedMapEntry)objectIn.readObject();<br>
 * 2. if ( isBackup(entry)||isPrimary(entry) ) entry.setOwner(owner); <br>
 * </code>
 * <br>
 * <br>
 * @author Filip Hanik
 * @version 1.0
 */
public interface ReplicatedMapEntry extends Serializable {

    /**
     * Has the object changed since last replication
     * and is not in a locked state
     * @return boolean
     */
    public boolean isDirty();

    /**
     * If this returns true, the map will extract the diff using getDiff()
     * Otherwise it will serialize the entire object.
     * @return boolean
     */
    public boolean isDiffable();

    /**

```

```

* Returns a diff and sets the dirty map to false
* @return byte[]
* @throws IOException
*/
public byte[] getDiff() throws IOException;

/**
* Applies a diff to an existing object.
* @param diff byte[]
* @param offset int
* @param length int
* @throws IOException
*/
public void applyDiff(byte[] diff, int offset, int length) throws IOException, ClassNotFoundException;

/**
* Resets the current diff state and resets the dirty flag
*/
public void resetDiff();

/**
* Lock during serialization
*/
public void lock();

/**
* Unlock after serialization
*/
public void unlock();

/**
* This method is called after the object has been
* created on a remote map. On this method,
* the object can initialize itself for any data that wasn't
*
* @param owner Object
*/
public void setOwner(Object owner);

/**
* For accuracy checking, a serialized attribute can contain a version number
* This number increases as modifications are made to the data.
* The replicated map can use this to ensure accuracy on a periodic basis
* @return long - the version number or -1 if the data is not versioned
*/
public long getVersion();

```

```

/**
 * Forces a certain version to a replicated map entry<br>
 * @param version long
 */
public void setVersion(long version);

}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.apache.catalina.tribes.transport.bio;

import org.apache.catalina.tribes.io.ObjectReader;
import org.apache.catalina.tribes.transport.Constants;
import org.apache.catalina.tribes.transport.AbstractRxTask;
import java.net.Socket;
import java.io.InputStream;
import java.io.OutputStream;
import org.apache.catalina.tribes.io.ListenCallback;
import org.apache.catalina.tribes.ChannelMessage;
import org.apache.catalina.tribes.io.ChannelData;
import org.apache.catalina.tribes.io.BufferPool;

/**
 * A worker thread class which can drain channels and echo-back the input. Each
 * instance is constructed with a reference to the owning thread pool object.
 * When started, the thread loops forever waiting to be awakened to service the
 * channel associated with a SelectionKey object. The worker is tasked by
 * calling its serviceChannel() method with a SelectionKey object. The
 * serviceChannel() method stores the key reference in the thread object then
 * calls notify() to wake it up. When the channel has been drained, the worker

```

```

* thread returns itself to its parent pool.
*
* @author Filip Hanik
*
* @version $Revision: 500684 $, $Date: 2007-01-28 00:27:18 +0100 (dim., 28 janv. 2007) $
*/
public class BioReplicationTask extends AbstractRxTask {

    protected static org.apache.juli.logging.Log log = org.apache.juli.logging.LogFactory.getLog(
BioReplicationTask.class );

    protected Socket socket;
    protected ObjectReader reader;

    public BioReplicationTask (ListenCallback callback) {
        super(callback);
    }

    // loop forever waiting for work to do
    public synchronized void run()
    {
        if ( socket == null ) return;
        try {
            drainSocket();
        } catch ( Exception x ) {
            log.error("Unable to service bio socket");
        }finally {
            try {socket.close();}catch ( Exception ignore){}
            try {reader.close();}catch ( Exception ignore){}
            reader = null;
            socket = null;
        }
        // done, ready for more, return to pool
        if ( getTaskPool() != null ) getTaskPool().returnWorker (this);
    }

    public synchronized void serviceSocket(Socket socket, ObjectReader reader) {
        this.socket = socket;
        this.reader = reader;
        this.notify(); // awaken the thread
    }

    protected void execute(ObjectReader reader) throws Exception{
        int pkgcnt = reader.count();

        if ( pkgcnt > 0 ) {

```

```

ChannelMessage[] msgs = reader.execute();
for ( int i=0; i<msgs.length; i++ ) {
    /**
     * Use send ack here if you want to ack the request to the remote
     * server before completing the request
     * This is considered an asynchronized request
     */
    if (ChannelData.sendAckAsync(msgs[i].getOptions())) sendAck(Constants.ACK_COMMAND);
    try {
        //process the message
        getCallback().messageDataReceived(msgs[i]);
        /**
         * Use send ack here if you want the request to complete on this
         * server before sending the ack to the remote server
         * This is considered a synchronized request
         */
        if (ChannelData.sendAckSync(msgs[i].getOptions())) sendAck(Constants.ACK_COMMAND);
    } catch ( Exception x ) {
        if (ChannelData.sendAckSync(msgs[i].getOptions())) sendAck(Constants.FAIL_ACK_COMMAND);
        log.error("Error thrown from messageDataReceived.",x);
    }
    if ( getUseBufferPool() ) {
        BufferPool.getBufferPool().returnBuffer(msgs[i].getMessage());
        msgs[i].setMessage(null);
    }
}

}

/**
 * The actual code which drains the channel associated with
 * the given key. This method assumes the key has been
 * modified prior to invocation to turn off selection
 * interest in OP_READ. When this method completes it
 * re-enables OP_READ and calls wakeup() on the selector
 * so the selector will resume watching this channel.
 */
protected void drainSocket () throws Exception {
    InputStream in = socket.getInputStream();
    // loop while data available, channel is non-blocking
    byte[] buf = new byte[1024];
    int length = in.read(buf);
    while ( length >= 0 ) {
        int count = reader.append(buf,0,length,true);
        if ( count > 0 ) execute(reader);
        length = in.read(buf);
    }
}

```

```

    }
}

/**
 * send a reply-acknowledgement (6,2,3)
 * @param key
 * @param channel
 */
protected void sendAck(byte[] command) {
    try {
        OutputStream out = socket.getOutputStream();
        out.write(command);
        out.flush();
        if (log.isTraceEnabled()) {
            log.trace("ACK sent to " + socket.getPort());
        }
    } catch ( java.io.IOException x ) {
        log.warn("Unable to send ACK back through channel, channel disconnected?: "+x.getMessage());
    }
}

public void close() {
    setDoRun(false);
    try {socket.close();}catch ( Exception ignore){}
    try {reader.close();}catch ( Exception ignore){}
    reader = null;
    socket = null;
    super.close();
}
}
/**
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```

```

*/

package org.apache.catalina.tribes.transport.nio;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.channels.SelectionKey;
import java.nio.channels.SocketChannel;

import org.apache.catalina.tribes.io.ObjectReader;
import org.apache.catalina.tribes.transport.Constants;
import org.apache.catalina.tribes.transport.AbstractRxTask;
import org.apache.catalina.tribes.ChannelMessage;
import org.apache.catalina.tribes.io.ListenCallback;
import org.apache.catalina.tribes.io.ChannelData;
import org.apache.catalina.tribes.io.BufferPool;
import java.nio.channels.CancelledKeyException;
import org.apache.catalina.tribes.UniqueId;
import org.apache.catalina.tribes.RemoteProcessException;
import org.apache.catalina.tribes.util.Logs;

/**
 * A worker thread class which can drain channels and echo-back the input. Each
 * instance is constructed with a reference to the owning thread pool object.
 * When started, the thread loops forever waiting to be awakened to service the
 * channel associated with a SelectionKey object. The worker is tasked by
 * calling its serviceChannel() method with a SelectionKey object. The
 * serviceChannel() method stores the key reference in the thread object then
 * calls notify() to wake it up. When the channel has been drained, the worker
 * thread returns itself to its parent pool.
 *
 * @author Filip Hanik
 *
 * @version $Revision: 546955 $, $Date: 2007-06-13 19:00:21 +0200 (mer., 13 juin 2007) $
 */
public class NioReplicationTask extends AbstractRxTask {

    private static org.apache.juli.logging.Log log = org.apache.juli.logging.LogFactory.getLog(
NioReplicationTask.class );

    private ByteBuffer buffer = null;
    private SelectionKey key;
    private int rxBufSize;
    private NioReceiver receiver;
    public NioReplicationTask (ListenCallback callback, NioReceiver receiver)
    {
        super(callback);
        this.receiver = receiver;
    }
}

```

```

// loop forever waiting for work to do
public synchronized void run() {
    if ( buffer == null ) {
        if ( (getOptions() & OPTION_DIRECT_BUFFER) == OPTION_DIRECT_BUFFER) {
            buffer = ByteBuffer.allocateDirect(getRxBufSize());
        } else {
            buffer = ByteBuffer.allocate(getRxBufSize());
        }
    } else {
        buffer.clear();
    }
    if (key == null) {
        return; // just in case
    }
    if ( log.isTraceEnabled() )
        log.trace("Servicing key:"+key);

    try {
        ObjectReader reader = (ObjectReader)key.attachment();
        if ( reader == null ) {
            if ( log.isTraceEnabled() )
                log.trace("No object reader, cancelling:"+key);
            cancelKey(key);
        } else {
            if ( log.isTraceEnabled() )
                log.trace("Draining channel:"+key);

            drainChannel(key, reader);
        }
    } catch (Exception e) {
        //this is common, since the sockets on the other
        //end expire after a certain time.
        if ( e instanceof CancelledKeyException ) {
            //do nothing
        } else if ( e instanceof IOException ) {
            //dont spew out stack traces for IO exceptions unless debug is enabled.
            if (log.isDebugEnabled()) log.debug ("IOException in replication worker, unable to drain channel.
Probable cause: Keep alive socket closed["+e.getMessage()+"].", e);
            else log.warn ("IOException in replication worker, unable to drain channel. Probable cause: Keep alive
socket closed["+e.getMessage()+"].");
        } else if ( log.isErrorEnabled() ) {
            //this is a real error, log it.
            log.error("Exception caught in TcpReplicationThread.drainChannel.",e);
        }
        cancelKey(key);
    } finally {

```

```

    }
    key = null;
    // done, ready for more, return to pool
    getTaskPool().returnWorker (this);
}

/**
 * Called to initiate a unit of work by this worker thread
 * on the provided SelectionKey object. This method is
 * synchronized, as is the run() method, so only one key
 * can be serviced at a given time.
 * Before waking the worker thread, and before returning
 * to the main selection loop, this key's interest set is
 * updated to remove OP_READ. This will cause the selector
 * to ignore read-readiness for this channel while the
 * worker thread is servicing it.
 */
public synchronized void serviceChannel (SelectionKey key) {
    if ( log.isTraceEnabled() ) log.trace("About to service key:"+key);
    ObjectReader reader = (ObjectReader)key.attachment();
    if ( reader != null ) reader.setLastAccess(System.currentTimeMillis());
    this.key = key;
    key.interestOps (key.interestOps() & (~SelectionKey.OP_READ));
    key.interestOps (key.interestOps() & (~SelectionKey.OP_WRITE));
}

/**
 * The actual code which drains the channel associated with
 * the given key. This method assumes the key has been
 * modified prior to invocation to turn off selection
 * interest in OP_READ. When this method completes it
 * re-enables OP_READ and calls wakeup() on the selector
 * so the selector will resume watching this channel.
 */
protected void drainChannel (final SelectionKey key, ObjectReader reader) throws Exception {
    reader.setLastAccess(System.currentTimeMillis());
    reader.access();
    SocketChannel channel = (SocketChannel) key.channel();
    int count;
    buffer.clear(); // make buffer empty

    // loop while data available, channel is non-blocking
    while ((count = channel.read (buffer)) > 0) {
        buffer.flip(); // make buffer readable
        if ( buffer.hasArray() )
            reader.append(buffer.array(),0,count,false);
        else
            reader.append(buffer,count,false);
    }
}

```

```

    buffer.clear(); // make buffer empty
    //do we have at least one package?
    if ( reader.hasPackage() ) break;
}

int pkgcnt = reader.count();

if (count < 0 && pkgcnt == 0 ) {
    //end of stream, and no more packages to process
    remoteEof(key);
    return;
}

ChannelMessage[] msgs = pkgcnt == 0? ChannelData.EMPTY_DATA_ARRAY : reader.execute();

registerForRead(key,reader);//register to read new data, before we send it off to avoid dead locks

for ( int i=0; i<msgs.length; i++ ) {
    /**
     * Use send ack here if you want to ack the request to the remote
     * server before completing the request
     * This is considered an asynchronized request
     */
    if (ChannelData.sendAckAsync(msgs[i].getOptions())) sendAck(key,channel,Constants.ACK_COMMAND);
    try {
        if ( Logs.MESSAGES.isTraceEnabled() ) {
            try {
                Logs.MESSAGES.trace("NioReplicationThread - Received msg:" + new
UniqueId(msgs[i].getUniqueId()) + " at " + new java.sql.Timestamp(System.currentTimeMillis()));
            }catch ( Throwable t ) {}
        }
        //process the message
        getCallback().messageDataReceived(msgs[i]);
        /**
         * Use send ack here if you want the request to complete on this
         * server before sending the ack to the remote server
         * This is considered a synchronized request
         */
        if (ChannelData.sendAckSync(msgs[i].getOptions()))
sendAck(key,channel,Constants.ACK_COMMAND);
    }catch ( RemoteProcessException e ) {
        if ( log.isDebugEnabled() ) log.error("Processing of cluster message failed.",e);
        if (ChannelData.sendAckSync(msgs[i].getOptions()))
sendAck(key,channel,Constants.FAIL_ACK_COMMAND);
    }catch ( Exception e ) {
        log.error("Processing of cluster message failed.",e);
        if (ChannelData.sendAckSync(msgs[i].getOptions()))
sendAck(key,channel,Constants.FAIL_ACK_COMMAND);
    }
}

```

```

    }
    if ( getUseBufferPool() ) {
        BufferPool.getBufferPool().returnBuffer(msgs[i].getMessage());
        msgs[i].setMessage(null);
    }
}

if (count < 0) {
    remoteEof(key);
    return;
}
}

private void remoteEof(SelectionKey key) {
    // close channel on EOF, invalidates the key
    if ( log.isDebugEnabled() ) log.debug("Channel closed on the remote end, disconnecting");
    cancelKey(key);
}

protected void registerForRead(final SelectionKey key, ObjectReader reader) {
    if ( log.isTraceEnabled() )
        log.trace("Adding key for read event:"+key);
    reader.finish();
    //register our OP_READ interest
    Runnable r = new Runnable() {
        public void run() {
            try {
                if (key.isValid()) {
                    // cycle the selector so this key is active again
                    key.selector().wakeup();
                    // resume interest in OP_READ, OP_WRITE
                    int resumeOps = key.interestOps() | SelectionKey.OP_READ;
                    key.interestOps(resumeOps);
                    if ( log.isTraceEnabled() )
                        log.trace("Registering key for read:"+key);
                }
            } catch (CancelledKeyException ckx ) {
                NioReceiver.cancelledKey(key);
                if ( log.isTraceEnabled() )
                    log.trace("CKX Cancelling key:"+key);
            } catch (Exception x) {
                log.error("Error registering key for read:"+key,x);
            }
        }
    };
    receiver.addEvent(r);
}

```

```

private void cancelKey(final SelectionKey key) {
    if ( log.isTraceEnabled() )
        log.trace("Adding key for cancel event:"+key);

    ObjectReader reader = (ObjectReader)key.attachment();
    if ( reader != null ) {
        reader.setCancelled(true);
        reader.finish();
    }
    Runnable cx = new Runnable() {
        public void run() {
            if ( log.isTraceEnabled() )
                log.trace("Cancelling key:"+key);

            NioReceiver.cancelledKey(key);
        }
    };
    receiver.addEvent(cx);
}

/**
 * send a reply-acknowledgement (6,2,3)
 * @param key
 * @param channel
 */
protected void sendAck(SelectionKey key, SocketChannel channel, byte[] command) {

    try {
        ByteBuffer buf = ByteBuffer.wrap(command);
        int total = 0;
        while ( total < command.length ) {
            total += channel.write(buf);
        }
        if (log.isTraceEnabled()) {
            log.trace("ACK sent to " + channel.socket().getPort());
        }
    } catch ( java.io.IOException x ) {
        log.warn("Unable to send ACK back through channel, channel disconnected?: "+x.getMessage());
    }
}

public void setRxBufSize(int rxBufSize) {
    this.rxBufSize = rxBufSize;
}

```

```

    }

    public int getRxBufSize() {
        return rxBufSize;
    }
}
/*
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 * contributor license agreements. See the NOTICE file distributed with
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 */

package org.apache.catalina.tribes.transport;

import org.apache.catalina.tribes.ChannelException;
import org.apache.catalina.tribes.ChannelMessage;
import org.apache.catalina.tribes.ChannelSender;
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.util.StringManager;
import org.apache.catalina.tribes.transport.nio.PooledParallelSender;

/**
 * Transmit message to other cluster members
 * Actual senders are created based on the replicationMode
 * type
 *
 * @author Filip Hanik
 * @version $Revision: 532800 $ $Date: 2007-04-26 18:52:29 +0200 (jeu., 26 avr. 2007) $
 */
public class ReplicationTransmitter implements ChannelSender {
    private static org.apache.juli.logging.Log log =
org.apache.juli.logging.LogFactory.getLog(ReplicationTransmitter.class);

    /**
     * The descriptive information about this implementation.
     */
    private static final String info = "ReplicationTransmitter/3.0";

```

```

/**
 * The string manager for this package.
 */
protected StringManager sm = StringManager.getManager(Constants.Package);

public ReplicationTransmitter() {
}

private MultiPointSender transport = new PooledParallelSender();

/**
 * Return descriptive information about this implementation and the
 * corresponding version number, in the format
 * <code>&lt;description&gt;/&lt;version&gt;</code>.
 */
public String getInfo() {
    return (info);
}

public MultiPointSender getTransport() {
    return transport;
}

public void setTransport(MultiPointSender transport) {
    this.transport = transport;
}

// ----- public

/**
 * Send data to one member
 * @see org.apache.catalina.tribes.ClusterSender#sendMessage(org.apache.catalina.tribes.ClusterMessage,
org.apache.catalina.tribes.Member)
 */
public void sendMessage(ChannelMessage message, Member[] destination) throws ChannelException {
    MultiPointSender sender = getTransport();
    sender.sendMessage(destination,message);
}

/**
 * start the sender and register transmitter mbean
 *
 * @see org.apache.catalina.tribes.ClusterSender#start()
 */

```

```

public void start() throws java.io.IOException {
    getTransport().connect();
}

/*
 * stop the sender and deregister mbeans (transmitter, senders)
 *
 * @see org.apache.catalina.tribes.ClusterSender#stop()
 */
public synchronized void stop() {
    getTransport().disconnect();
}

/**
 * Call transmitter to check for sender socket status
 *
 * @see SimpleTcpCluster#backgroundProcess()
 */

public void heartbeat() {
    if (getTransport()!=null) getTransport().keepalive();
}

/**
 * add new cluster member and create sender ( s. replicationMode) transfer
 * current properties to sender
 *
 * @see org.apache.catalina.tribes.ClusterSender#add(org.apache.catalina.tribes.Member)
 */
public synchronized void add(Member member) {
    getTransport().add(member);
}

/**
 * remove sender from transmitter. ( deregister mbean and disconnect sender )
 *
 * @see org.apache.catalina.tribes.ClusterSender#remove(org.apache.catalina.tribes.Member)
 */
public synchronized void remove(Member member) {
    getTransport().remove(member);
}

// ----- protected

}

```

1.1130 trim-newlines 1.0.0

1.1130.1 Available under license :

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1.1131 tryor 0.1.2

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1.1132 ttmkfdir 3.0.9 :32.1.el6

1.1132.1 Available under license :

Summary: Utility used to create fonts.scale files for truetype fonts

Name: ttmkfdir

Version: 3.0.9

Release: 1

#URL:

Source0: %{name}-%{version}.tar.bz2

License: GPL

Group: Applications/System

BuildRoot: %{_tmppath}/%{name}-root

BuildRequires: freetype-devel >= 2.0

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

That's all there is to it!

1.1133 tunnel-agent 0.4.2

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1.1140 typeahead.bundle.js 0.10.4

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1.1141 typedarray 0.0.6

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell inexorable@lindenlab.com

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

```
// Variations:  
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
```

1.1142 tyrex 1.0.1

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*
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1.1157 upstart 0.6.5 :12.el6

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

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

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

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

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

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

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

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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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

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

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Google App Engine Terms of Service
Your Agreement with Google

This License Agreement for Google App Engine (the "Agreement") is made and entered into by and between Google Inc., a Delaware corporation, with offices at 1600 Amphitheatre Parkway, Mountain View 94043 ("Google") and the business entity agreeing to these terms ("Customer"). This Agreement is effective as of the date Customer clicks the "I Accept" button below (the "Effective Date"). If you are accepting on behalf of Customer, you represent and warrant that: (i) if you have full legal authority to bind Customer to this Agreement; (ii) you have read and understand this Agreement; and (iii) you agree, on behalf of Customer, to this Agreement. If you do not have the legal authority to bind Customer, please do not click the "I Accept" button below. This Agreement governs Customer's access to and use of the Service.

1. Licenses.

1.1 From Google to Customer. Subject to this Agreement, Google grants to Customer a worldwide, non-sublicensable, non-transferable, non-exclusive, terminable, limited license to (a) use the Service, (b) integrate the Service into any Application and provide the Service, solely as integrated into the Application, to users of the Application and (c) use any Software provided by Google as part of the Service.

1.2 From Customer to Google. By submitting, posting, generating or displaying any Application and/or Customer Data on or through the Service, Customer gives Google a worldwide, non-sublicensable, non-transferable, non-exclusive, terminable, limited license to reproduce, adapt, modify, translate, publish, publicly perform, publicly display and distribute any Application and/or including Customer Data for the sole purpose of enabling Google to provide Customer with the Service in accordance with the Agreement.

Provision of the Service.

2.1 Console. Google will provide the Service to Customer. As part of receiving the Service, Customer will have access to the Admin Console, through which Customer may administer the Service.

2.2 Facilities and Data Transfer. All facilities used to store and process an Application and Customer Data will adhere to reasonable security standards no less protective than the security standards at facilities where Google processes and stores its own information of a similar type. Google has implemented at least industry standard systems and procedures to ensure the security and confidentiality of an Application and Customer Data, protect against anticipated threats or hazards to the security or integrity of an Application and Customer Data, and protect against unauthorized access to or use of an Application and Customer Content. Google may process and store an Application and Customer Data

in the United States or any other country in which Google or its agents maintain facilities. By using the Service, Customer consents to this processing and storage of an Application and Customer Data. The parties agree that Google is merely a data processor.

2.3 Data Storage Selection.

Data Storage. Customer may select via the Service whether the Core App Engine End User Data will be stored permanently, at rest, in either the United States or the European Union, and Google will store it accordingly ("App Engine Data Location Setting"). If no selection is made, Core App Engine End User Data will be stored permanently, at rest, in the United States.

Transient Storage. Core App Engine End User Data may be stored transiently or cached in any country in which Google or its agents maintain facilities before reaching permanent storage.

Limitations. No App Engine Data Location Setting will apply to Core App Engine End User Data copied in another location or used with other Google products and services (including any other Google Cloud Platform services). If so, the Core App Engine End User Data will be processed and stored pursuant to Section 2.2 of this Agreement.

2.4 Accounts. Customer must have an Account to use the Service, and is responsible for the information it provides to create the Account, the security of its passwords for the Account, and for any use of its Account. If Customer becomes aware of any unauthorized use of its password or its Account, Customer will notify Google as promptly as possible.

2.5 Privacy Policies. The Service is subject to Google's Privacy Policy. Changes to the Privacy Policy will be made as stated in the applicable policy. In addition, Google is enrolled in the U.S. Department of Commerce Safe Harbor Program and will remain enrolled in this program or another replacement program (or will adopt a compliance solution which achieves compliance with the terms of Article 25 of Directive 95/46/EC) throughout the Term of the Agreement.

2.6 New Applications. Google may make new applications, tools, features or functionality available from time to time through the Service, the use of which may be contingent upon Customer's agreement to additional terms.

2.7 Modifications.

To the Service. Subject to Section 9.4 (Termination for Convenience), Google may make commercially reasonable Updates to the Service from time to time. If Google makes a material change to the Service, Google will inform Customer, provided that Customer has subscribed with Google to be informed about such change.

To the Agreement. Google may make changes to this Agreement, including pricing from time to time. Unless otherwise noted by Google, material changes to the Agreement will become effective 90 days after they are posted, except if the

changes apply to new functionality in which case they will be effective immediately. If Customer does not agree to the revised Agreement, please stop using the Service. Google will post any modification to this Agreement to the Terms URL.

3. Payment Terms.

3.1 Free Quota. The Service is provided to Customer without charge up to the Fee Threshold.

3.2 Online Billing. Google will issue an electronic bill to Customer for all charges accrued above the Fee Threshold. Fees are solely based on Google's measurements of Customer's use of the Service, may include monthly fees, and Google's determination is final. For use above the Fee Threshold, Customer shall be responsible for all Fees up to the amount set in the Account and shall pay all Fees in U.S. Dollars or in such other currency as agreed to in writing by the parties. Customer shall pay all Fees in accordance with the payment terms in the Service FAQ.

3.3 Delinquent Payments. Late payments may bear interest at the rate of 1.5% per month (or the highest rate permitted by law, if less). Google reserves the right to suspend your Account for any late payments.

3.4 Taxes. Customer is responsible for any Taxes, and Customer will pay Google for the Services without any reduction for Taxes. If Google is obligated to collect or pay Taxes, the Taxes will be invoiced to Customer, unless Customer provides Google with a timely and valid tax exemption certificate authorized by the appropriate taxing authority. In some states the sales tax is due on the total purchase price at the time of sale and must be invoiced and collected at the time of the sale. If Customer is required by law to withhold any Taxes from its payments to Google, Customer must provide Google with an official tax receipt or other appropriate documentation to support such withholding payments.

3.5 Invoice Disputes & Refunds. To the fullest extent permitted by law, Customer waives all claims relating to Fees unless claimed within sixty days after charged (this does not affect any Customer rights with its credit card issuer). Refunds (if any) are at the discretion of Google and will only be in the form of credit for the Service. Nothing in this Agreement obligates Google to extend credit to any party.

4. Customer Obligations.

4.1 Compliance. Customer is solely responsible for its Applications and Customer Data, and for making sure its Applications or Customer Data comply with the Acceptable Use Policy. Google reserves the right to review the Application or Customer Data to ensure Customer's compliance with the Acceptable Use Policy. Customer is responsible for ensuring all End Users comply with Customer's obligations under the Agreement.

4.2 Privacy. Customer will protect the privacy and legal rights of its End Users under all applicable laws and regulations, which includes a legally adequate privacy notice communicated from Customer. Customer may have the ability to access, monitor, use, or disclose Customer Data submitted by End Users through the Service. Customer will obtain and maintain any required consents from End Users to allow Customer's access, monitoring, use and disclosure of Customer Data. Further, Customer will notify its End Users that any Customer Data provided as part of the Service will be made available to a third party as part of Google providing the Service.

4.3 Restrictions. Customer will not, and will not allow third parties under its control to: (a) copy, modify, create a derivative work of, reverse engineer, decompile, translate, disassemble, or otherwise attempt to extract the source code of the Service or any component thereof (subject to Section 4.4 below); (b) use the Service for High Risk Activities; (c) sublicense, resell, or distribute the Service or any component thereof separate from any integrated Application; (d) use the Service to create, train, or improve (directly or indirectly) a substantially similar product or service, including any other machine translation engine; (e) create multiple Applications or Accounts to simulate or act as a single Application or Account (respectively) or otherwise access the Service in a manner intended to avoid incurring Fees; (f) use the Service to operate or enable any telecommunications service or in connection with any Application that allows End Users to place calls to or to receive calls from any public switched telephone network; or (g) process or store any Customer Data that is subject to the International Traffic in Arms Regulations maintained by the Department of State. Customer acknowledges that the Service is not HIPAA compliant and Customer is solely responsible for any applicable compliance with HIPAA.

4.4 Open Source Components. Open source software licenses for components of the Service released under an open source license constitute separate written agreements. Open source software is listed in the Documentation. To the limited extent the open source software licenses expressly supersede this Agreement, the open source license instead governs Customer's agreement with Google for the specific included open source components of the Service, or use of the Service (as may be applicable).

4.5 Documentation. Google may provide Documentation for Customer's use of the Service. The Documentation may specify restrictions (e.g. attribution of HTML restrictions) on how the Applications may be built or the Service may be used and Customer agrees to comply with any such restrictions specified.

4.6 DMCA Policy. Google provides information to help copyright holders manage their intellectual property online, but Google cannot determine whether something is being used legally or not without their input. Google responds to notices of alleged copyright infringement and terminates accounts of repeat infringers according to the process set out in the U.S. Digital Millennium

Copyright Act. If Customer thinks somebody is violating Customer's or its End Users' copyrights and wants to notify Google, Customer can find information about submitting notices, and Google's policy about responding to notices at <http://www.google.com/dmca.html>.

4.7 Application and No Multiple Accounts, Bills. Any Application must have material value independent from the Services. Google has no obligation to provide multiple bills or Accounts to Customer under the Agreement.

5. Suspension and Removals.

5.1 Suspension/Removals. If Customer becomes aware that any Application or an End User's use of an Application, or Customer Data violates the Acceptable Use Policy, Customer will immediately suspend the Application, remove the applicable Customer Data, or suspend access to an End User (as may be applicable). If Customer fails to suspend or remove as noted in the prior sentence, Google may specifically request that Customer do so. If Customer fails to comply with Google's request to do so within twenty-four hours, then Google may suspend Google accounts of the applicable End Users, disable the Application, and/or disable the Account (as may be applicable) until such violation is corrected.

5.2 Emergency Security Issues. Despite the foregoing, if there is an Emergency Security Issue, then Google may automatically suspend the offending End User account, Application or the Account. Suspension will be to the minimum extent required, and of the minimum duration, to prevent or terminate the Emergency Security Issue. If Google suspends an End User account or the Application or Account, for any reason, without prior notice to Customer, at Customer's request, Google will provide Customer the reason for the suspension as soon as is reasonably possible.

6. Intellectual Property Rights; Brand Features.

6.1 Intellectual Property Rights. Except as expressly set forth herein, this Agreement does not grant either party any rights, implied or otherwise, to the other's content or any of the other's intellectual property. As between the parties, Customer owns all Intellectual Property Rights in any Application and Customer Content, and Google owns all Intellectual Property Rights in the Service.

6.2 Brand Features Limitation. If Customer wants to display Google Brand Features in connection with its use of the Service, Customer must obtain written permission from Google through process specified in the Trademark Guidelines. For the sole purpose of providing the Service, Customer permits Google to display any Brand Features that may appear in its Application. Any use of a party's Brand Features will inure to the benefit of the party holding Intellectual Property Rights to those Brand Features. A party may revoke the other party's right to use its Brand Features pursuant to this Agreement with written notice to the other and a reasonable period to stop the use.

7. Technical Support Service

7.1 By Customer. Customer is responsible for technical support of its Application.

7.2 Deprecation Policy.

Google will announce if we intend to discontinue or make backwards incompatible changes to this API or Service. We will use commercially reasonable efforts to continue to operate that Service without these changes until the later of: (i) one year after the announcement or (ii) April 20, 2015, unless (as Google determines in its reasonable good faith judgment):

required by law or third party relationship (including if there is a change in applicable law or relationship), or
doing so could create a security risk or substantial economic or material technical burden.

This Deprecation Policy doesn't apply to versions, features, and functionality labeled as "experimental."

8. Confidential Information.

8.1 Obligations. The recipient of the other party's Confidential Information will not disclose the Confidential Information, except to Affiliates, employees, agents, or professional advisors who need to know it and who have agreed in writing (or in the case of professional advisors are otherwise bound) to keep it confidential. The recipient will ensure that those people and entities use the Confidential Information only to exercise rights and fulfill obligations under this Agreement, while using reasonable care to keep it confidential. The recipient may also disclose Confidential Information when required by law after giving reasonable notice to the discloser if allowed by law. The recipient may also disclose Confidential Information to the extent required by applicable Legal Process; provided that the recipient uses commercially reasonable efforts to: (i) promptly notify the other party of such disclosure before disclosing; and (ii) comply with the other party's reasonable requests regarding its efforts to oppose the disclosure. Notwithstanding the foregoing, subsections (i) and (ii) above will not apply if the recipient determines that complying with (i) and (ii) could: (a) result in a violation of Legal Process; (b) obstruct a governmental investigation; and/or (c) lead to death or serious physical harm to an individual. As between the parties, Customer is responsible for responding to all third party requests concerning its use and its End Users' use of the Services.

9. Term and Termination.

9.1 Agreement Term. The license granted in this Agreement will remain in effect, unless terminated earlier as set forth in this Agreement.

9.2 Termination for Breach. Either party may terminate this Agreement for breach if: (i) the other party is in material breach of the Agreement and fails to cure

that breach within thirty days after receipt of written notice; (ii) the other party ceases its business operations or becomes subject to insolvency proceedings and the proceedings are not dismissed within ninety days; or (iii) the other party is in material breach of this Agreement more than two times notwithstanding any cure of such breaches.

9.3 Termination for Inactivity. Google reserves the right to terminate the Service for inactivity, if, for a period exceeding ninety days, Customer (a) has failed to access the Admin Console, (b) an Application has not served any requests, and (c) no electronic bills are being generated.

9.4 Termination for Convenience. Customer may stop using the Service at any time. Customer may terminate this Agreement for convenience at any time on prior written notice and upon termination, must cease use of the Service. Google may terminate this Agreement for its convenience at any time without liability to Customer. Subject to Section 7.2, Google may discontinue the Service or any portion or feature for any reason at any time without liability to Customer.

9.5 Effects of Termination. If the Agreement expires or is terminated, then: (i) the rights granted by one party to the other will immediately cease; (ii) all Fees (including Taxes) owed by Customer to Google are immediately due upon receipt of the final electronic bill; (iii) Customer will delete the Software, any Application and any Customer Data; and (iv) upon request, each party will use commercially reasonable efforts to return or destroy all Confidential Information of the other party.

10. Publicity.

Customer is permitted to state publicly that it is a customer of the Service, consistent with the Trademark Guidelines. Customer agrees that Google may include Customer's name or Brand Features in a list of Google customers, online or promotional materials. Customer also agrees that Google may verbally reference Customer as a customer of the Google products or services that are the subject of this Agreement. This section is subject to the "Brand Features Limitation" section of the Agreement. For clarification, neither party needs to seek approval from the other if the party is repeating a public statement that is substantially similar to a public statement that has been previously approved.

11. Representations.

Each party represents that: (a) it has full power and authority to enter into the Agreement; and (b) it will comply with all laws and regulations applicable to its provision, or use, of the Service, as applicable. Google warrants it will provide the Service in accordance with the applicable SLA.

12. Disclaimer.

EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, GOOGLE DOES NOT MAKE ANY OTHER WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION

WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND NONINFRINGEMENT.

GOOGLE IS NOT RESPONSIBLE OR LIABLE FOR THE DELETION OF OR FAILURE TO STORE ANY CONTENT AND OTHER COMMUNICATIONS MAINTAINED OR TRANSMITTED THROUGH USE OF THE SERVICE. CUSTOMER IS SOLELY RESPONSIBLE FOR SECURING AND BACKING UP ITS APPLICATION AND CUSTOMER CONTENT. GOOGLE DOES NOT WARRANT THAT THE OPERATION OF

THE SOFTWARE OR THE SERVICE WILL BE ERROR-FREE OR UNINTERRUPTED. NEITHER THE SOFTWARE NOR THE SERVICE ARE DESIGNED, MANUFACTURED, OR INTENDED FOR HIGH RISK ACTIVITIES.

13. Limitation of Liability.

13.1 Limitation on Indirect Liability. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIERS, WILL BE LIABLE UNDER THIS AGREEMENT FOR LOST REVENUES OR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES, EVEN IF THE PARTY KNEW OR SHOULD HAVE KNOWN THAT SUCH DAMAGES WERE POSSIBLE AND EVEN IF DIRECT DAMAGES DO NOT SATISFY A REMEDY.

13.2 Limitation on Amount of Liability. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIER'S, MAY BE HELD LIABLE UNDER THIS AGREEMENT FOR MORE THAN THE AMOUNT PAID BY CUSTOMER TO GOOGLE DURING THE TWELVE MONTHS PRIOR TO THE EVENT GIVING RISE TO LIABILITY.

13.3 Exceptions to Limitations. These limitations of liability do not apply to breaches of confidentiality obligations, violations of a party's Intellectual Property Rights by the other party, or indemnification obligations.

14. Indemnification.

14.1 By Customer. Customer will indemnify, defend, and hold harmless Google from and against all liabilities, damages, and costs (including settlement costs and reasonable attorneys' fees) arising out of a third party claim: (i) regarding any Application or Customer Content; (ii) that Customer Brand Features infringe or misappropriate any patent, copyright, trade secret or trademark of a third party; or (iii) regarding Customer's, or its End Users', use of the Service in violation of the Acceptable Use Policy.

14.2 By Google. Google will indemnify, defend, and hold harmless Customer from and against all liabilities, damages, and costs (including settlement costs and reasonable attorneys' fees) arising out of a third party claim that Google's technology used to provide the Service (excluding any open source software) or any Google Brand Feature infringes or misappropriates any patent, copyright, trade secret or trademark of such third party. Notwithstanding the foregoing, in no event shall Google have any obligations or liability under this Section arising from: (i) use of any Service or Google Brand Features in a modified form or in combination with materials not furnished by Google, and (ii) any Customer Content.

14.3 Possible Infringement.

Repair, Replace, or Modify. If Google reasonably believes the Service infringes a third party's Intellectual Property Rights, then Google will: (a) obtain the right for Customer, at Google's expense, to continue using the Service; (b) provide a non-infringing functionally equivalent replacement; or (c) modify the Service so that it no longer infringes.

Suspension or Termination. If Google does not believe the foregoing options are commercially reasonable, then Google may suspend or terminate Customer's use of the impacted Service.

14.4 General. As a condition to indemnification for a claim, the party seeking indemnification must promptly notify the other party of the claim in writing and cooperate with the other party in defending the claim. The indemnifying party has full control and authority over the defense, except that: (a) any settlement requiring the party seeking indemnification to admit liability or to pay any money will require that party's prior written consent, such consent not to be unreasonably withheld or delayed; and (b) the other party may join in the defense with its own counsel at its own expense. Notwithstanding the foregoing, if the indemnified party settles without the prior written consent of the indemnifying party, the indemnifying party has no obligation of contribution.

THE INDEMNITIES ABOVE ARE THE ONLY REMEDY UNDER THIS AGREEMENT FOR VIOLATION OF A THIRD PARTY'S INTELLECTUAL PROPERTY RIGHTS.

15. Government Purposes (applicable to United States government customers only).

The Service was developed solely at private expense and is commercial computer software and related documentation within the meaning of the applicable civilian and military Federal acquisition regulations and any supplements thereto. If the user of the Service is an agency, department, employee, or other entity of the United States Government, under FAR 12.212 and DFARS 227.7202, the use, duplication, reproduction, release, modification, disclosure, or transfer of the Service, including technical data or manuals, is governed by the terms and conditions contained in this Agreement, which is Google's standard commercial license agreement.

16. Miscellaneous.

16.1 Notices. All notices must be in writing and addressed to the other party's legal department and primary point of contact. The email address for notices being sent to Google's Legal Department is legal-notices@google.com. Notice will be treated as given: (a) on receipt as verified by written automated receipt or by electronic log (as applicable).

16.2 Assignment. Neither party may assign any part of this Agreement without the written consent of the other, except to an Affiliate where: (a) the assignee has agreed in writing to be bound by the terms of this Agreement; (b) the assigning party remains liable for obligations under the Agreement if the assignee defaults on them; and (c) the assigning party has notified the other party of the assignment. Any other attempt to assign is void.

16.3 Change of Control. If a party experiences a change of Control (for example, through a stock purchase or sale, merger, or other form of corporate transaction): (a) that party will give written notice to the other party within thirty days after the change of Control; and (b) the other party may immediately terminate this Agreement any time between the change of Control and thirty days after it receives that written notice.

16.4 Force Majeure. Neither party will be liable for failure or delay in performance to the extent caused by circumstances beyond its reasonable control.

16.5 No Agency. This Agreement does not create any agency, partnership or joint venture between the parties.

16.6 No Waiver. Neither party will be treated as having waived any rights by not exercising (or delaying the exercise of) any rights under this Agreement.

16.7 Severability. If any term (or part of a term) of this Agreement is invalid, illegal or unenforceable, the rest of the Agreement will remain in effect.

16.8 No Third-Party Beneficiaries. This Agreement does not confer any benefits on any third party unless it expressly states that it does.

16.9 Equitable Relief. Nothing in this Agreement will limit either party's ability to seek equitable relief.

16.10 Governing Law.

For City, County, and State Government Entities. If Customer is a city, county or state government entity, then the parties agree to remain silent regarding governing law and venue.

For Federal Government Entities. If Customer is a federal government entity then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY THE LAWS OF THE UNITED STATES OF AMERICA, EXCLUDING ITS CONFLICT OF LAWS RULES. SOLELY TO THE EXTENT PERMITTED BY FEDERAL LAW: (I) THE LAWS OF THE STATE OF CALIFORNIA (EXCLUDING CALIFORNIA'S CONFLICT OF LAWS RULES) WILL APPLY IN THE ABSENCE OF APPLICABLE FEDERAL LAW; AND (II) FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE, THE PARTIES CONSENT TO PERSONAL JURISDICTION IN, AND THE EXCLUSIVE VENUE OF, THE COURTS IN SANTA CLARA COUNTY, CALIFORNIA.

For All Other Entities. If Customer is any entity not set forth in Section 16.10(a) or (b) then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY CALIFORNIA LAW, EXCLUDING THAT STATE'S CONFLICT OF LAWS RULES, AND WILL BE LITIGATED EXCLUSIVELY IN THE FEDERAL OR STATE COURTS OF SANTA CLARA COUNTY, CALIFORNIA, USA; THE PARTIES CONSENT TO PERSONAL JURISDICTION IN THOSE COURTS.

16.11 Amendments. Any amendment must be in writing, signed by both parties, and

expressly state that it is amending this Agreement.

16.12 Survival. The following Sections will survive expiration or termination of this Agreement: 6.1 (Intellectual Property Rights), 8 (Confidential Information), 9.5 (Effects of Termination), 13 (Limitation of Liability), 14 (Indemnification) and 16 (Miscellaneous).

16.13 Entire Agreement. This Agreement supersedes all other agreements between the parties relating to its subject matter. In entering into this Agreement, neither party has relied on, and neither party will have any right remedy based on, any statement, representation or warranty (whether made negligently or innocently), except those expressly set out in this Agreement. The terms located at a URL referenced in this Agreement and the Documentation are hereby incorporated by this reference. After the Effective Date, Google may provide Customer with an updated URL in place of any URL in this Agreement.

16.14 Interpretation of Conflicting Terms. If there is a conflict among the documents that make up this Agreement, the documents will control in the following order: the Agreement, and the terms located at any URL.

16.15 Counterparts. The parties may execute this Agreement in counterparts, including facsimile, PDF and other electronic copies, which taken together will constitute one instrument.

16.16 Definitions.

"Acceptable Use Policy" means the acceptable use policy set forth here: <http://developers.google.com/cloud/terms/aup>.

"Account" means Customer's Google account (either gmail.com address or an Email address provided under the

"Google Apps" product line); subject to those terms of service, as may be applicable.

"Admin Console" means the online tool provided by Google to Customer for administering the Service.

"Affiliate" means any entity that directly or indirectly controls, is controlled by, or is under common control with a party.

"Application(s)" means any web application Customer creates using the Service, including any source code written by Customer to be used with the Service.

"Brand Features" means the trade names, trademarks, service marks, logos, domain names, and other distinctive brand features of each party, respectively, as secured by such party from time to time.

"Confidential Information" means information that one party (or an Affiliate) discloses to the other party under this Agreement, and which is marked as confidential or would normally under the circumstances be considered confidential information. It does not include information that the recipient already rightfully knew, that becomes public through no fault of the recipient, that was independently developed by the recipient, or that was lawfully given to

the recipient by a third party. Customer Data is considered Customer's Confidential Information.

"Control" means control of greater than fifty percent of the voting rights or equity interests of a party.

"Core App Engine End User Data" means content provided through the use of an Application running on Google App Engine, by those End Users who are not acting as Developer End Users (and information related to those End Users stored by the Application), but excluding authentication information for those End Users' Google accounts.

"Customer Data" means content provided, transmitted or displayed via the Service by Customer, or its End Users; but excluding any data provided as part of the Account.

"Documentation" means the Google documentation in the form generally made available by Google to its customers for use with the Service, as may be found here: <https://developers.google.com/appengine/docs> or such other URL as Google may provide.

"Emergency Security Issue" means either: (a) Customer's or its End User's use of the Service in violation of the Acceptable Use Policy, which could disrupt: (i) the Service; (ii) other Customers' or its End Users' use of the Service; or (iii) the Google network or servers used to provide the Service; or (b) unauthorized third party access to the Service.

"End Users" means the individuals Customer permits to use the Application.

"Export Control Laws" means all applicable export and re-export control laws and regulations, including the Export Administration Regulations ("EAR") maintained by the U.S. Department of Commerce, trade and economic sanctions maintained by the Treasury Department's Office of Foreign Assets Control, and the International Traffic in Arms Regulations ("ITAR") maintained by the Department of State.

"Fee Threshold" means the threshold (as may be updated from time to time), which is more fully described here:

<https://developers.google.com/appengine/docs/quotas>.

"Fees" means the applicable fees for the Service and any applicable Taxes as set forth here: <https://developers.google.com/appengine/docs/billing>.

"High Risk Activities" means uses such as the operation of nuclear facilities, air traffic control, or life support systems, where the use or failure of the Service could lead to death, personal injury, or environmental damage.

"HIPAA" means the Health Insurance Portability and Accountability Act of 1996 as it may be amended from time to time, and any regulations issued thereunder.

"Intellectual Property Rights" means current and future worldwide rights under patent law, copyright law, trade secret law, trademark law, moral rights law, and other similar rights.

"Legal Process" means a request for disclosure of data made pursuant to law, governmental regulation, court order, subpoena, warrant, governmental regulatory or agency request, or other valid legal authority, legal procedure, or similar process.

"Privacy Policy" means Google's privacy policy located at:

<https://www.google.com/privacypolicy.html> or such other URL as Google may provide.

"Protected Health Information" means the definition on 45 CFR 160.103, limited to the information created or received by a business associate from on or behalf of a covered entity.

"Service" means the Google App Engine Service as more fully described here: <https://developers.google.com/appengine/> or such other URL as Google may provide. The APIs provided under the Service are listed here: https://developers.google.com/appengine/appengine_services or such other URL as Google may provide.

"Service FAQ" means those FAQs more fully described here: <https://developers.google.com/appengine/kb> or such other URL as Google may provide.

Service Level Agreement or SLA means the service level agreement then in effect for the Service available at the following URL: <https://developers.google.com/appengine/sla> or such other URL as Google may provide.

"Software" means any downloadable tools, software development kits or other such proprietary computer software provided by Google in connection with the Service, which may be downloaded by Customer, and any updates Google may make to such Software from time to time.

"Taxes" means any duties, customs fees, or taxes (other than Google's income tax) associated with the purchase of the Service, including any related penalties or interest.

"Terms URL" means the following URL: <https://developers.google.com/appengine/terms> or such other URL as Google may provide.

"Third Party Request" means a request from a third party for records relating to an End User's use of the Services. Third Party Requests can be a lawful search warrant, court order, subpoena, other valid legal order, or written consent from the End User permitting the disclosure.

"Trademark Guidelines" means Google's Guidelines for Third Party Use of Google Brand Features, located at the following URL: <http://www.google.com/permissions/guidelines.html> or such other URL as Google may provide.

"Updates" means the periodic software updates provided by Google to Customer from time to time. Updates are designed to improve, enhance and further develop the Service and may take the form of bug fixes, enhanced functions, new software modules and completely new versions.

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1.1186 vinyl-sourcemaps-apply 0.1.4

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1.1187 watch 0.11.0

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1.1190 websocket-extensions 0.1.1

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1.1191 weinre 2.0.0-pre-I0Z7U9OV

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UglifyJS
<https://github.com/mishoo/UglifyJS>

Note that UglifyJS is shipped with WebKit Web Inspector.

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formidable 1.0.9 via npmjs.org
<https://github.com/felixge/node-formidable>

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mime 1.2.5 via npmjs.org
<https://github.com/bentomas/node-mime>

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mkdirp 0.0.7 via npmjs.org
<https://github.com/substack/node-mkdirp>

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qs 0.4.2 via npmjs.org
<https://github.com/visionmedia/node-querystring>

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nopt 1.0.10 via npmjs.org
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abbrev 1.0.3 via npmjs.org
<https://github.com/isaacs/abbrev-js>

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1.1193 window-size 0.1.4

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1.1194 Woden - API 1.0M9

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1.1196 woden-impl-dom 1.0M9

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1.1208 wstx-asl 3.2.9

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1.1215 XML Pull Parsing API 1.1.3.1

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* @version 1.0.0

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 *
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1.1223 xmlbuilder 4.2.1

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1.1224 xmlhttprequest 1.5.0

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1.1226 xmlrpc-c 1.16.24 :1209.1840.e16

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Eric Kidd developed the original Xmlrpc-c in 2000 and maintained it up through June 2001.

Bryan Henderson took over as maintainer in October 2004.

Xmlrpc-c contains (and relies on for some server functions) a derivation of the Abyss web server by Moez Mahfoudh.

Xmlrpc-c contains (and relies on) a derivation of the Expat XML parser, written by James Clark.

The base64 code was derived from what Jack Jansen developed for Python.

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1.1227 XMLSchema 1.4.7

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1.1229 xorg-x11-font-utils 7.2 :11.el6

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1.1240 yavijava 6.0.03

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1.1241 yeast 0.1.2

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1.1242 yecht 1.0

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1.1243 zope.interface 4.0.5

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