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== For the common.js library         ==
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## 1.5 epel-release 6 :8

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## 2.20 apache-mime4j 0.6

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webmaster

(last updated by reagle on 1999/04/99.)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

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[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=252418>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

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The Rhino jar also includes four classes:

`org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java`

`org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java`

`org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java`

`org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java`

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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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Code sample

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## 2.40 Boost C++ library 1.52.0

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## 2.43 bootstrap 3.0.3

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## 2.44 bootstrap-datarangepicker 1.3.2

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## 2.46 bootstrap-datetimepicker 0.0.11

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## 2.50 bsh-core 2.0 b4

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## 2.51 c3p0 0.9.5-pre6

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# 2.52 cglib-nodep 2.2

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## 2.66 DHTML Calendar 1.0 :2005-03-07 Mihai Bazon

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```
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* -----
*
* The DHTML Calendar
*
* Details and latest version at:
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*
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*
* This file defines helper functions for setting up the calendar. They are
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* shows you what one can do with the calendar, while in the same time
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*/
```

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## 2.72 eclipse-emf 2.6.0

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*/
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AppleJavaExtensions  
v 1.2

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## 2.83 gdata-core 1.0

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The primary ANTLR guy:

Terence Parr

parrt@cs.usfca.edu

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## 2.108 gwt-log 3.1.2

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

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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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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## 2.113 Hibernate 2.1.6 :9.8.2004

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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

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(1)

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(2)

SimpleXMLParser:

The original version of this class was published in a JavaWorld article by Steven Brandt: <http://www.javaworld.com/javaworld/javatips/jw-javatip128.html> Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This frameork supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

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## 2.134 jackson-core-ssl 1.9.13

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That's all there is to it!

```
/* Jackson JSON-processor.
```

```
*
```

```
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```

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```

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```
*/
```

```
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## 2.135 jackson-core-asl 1.9.0

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Version 2.0, January 2004

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That's all there is to it!

```
/* Jackson JSON-processor.
```

```
*
```

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```

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```
*/
```

## 2.136 jackson-core-asl 1.8.5

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## 2.137 jackson-jaxrs 1.9.9

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## 2.139 jackson-mapper-asl 1.9.0

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That's all there is to it!

/\* Jackson JSON-processor.

\*

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## 2.140 jackson-mapper-asl 1.8.5

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# 2.141 jackson-mapper-asl 1.4.0.

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## 2.142 jackson-mapper-asl 1.9.13

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```

## 2.143 jackson-xc 1.8.5

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## 2.144 jackson-xc 1.9.9

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## 2.145 jansson 2.4

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(1)

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(2)

SimpleXMLParser:

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<http://www.javaworld.com/javaworld/javatips/jw-javatip128.html>  
Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in  
Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.'  
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(3)

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com/lowagie/text/pdf/codec/TIFFFaxDecoder.java (first appearance in iText: 2003-04-09)  
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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com)  
writes: "This code is under a BSD license and supersedes the older codec packages  
on which your code is based. It also includes numerous fixes among them being the  
ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares,  
but apart from the fixes there were no essential changes between the code that  
was originally adapted and the code that is now available under the following  
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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This frameork supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file `com/lowagie/text/pdf/codec/TIFFConstants`

and some other TIFF related code is derived from LIBTIFF:

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

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

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

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

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

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

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

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

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

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

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

The actual DOM Java Language Binding classes for SMIL came from:

<http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/>  
(both `ElementTimeControl.java` and `TimeEvent.java` were taken at revision 1.1)

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those

libraries into non-free programs.

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.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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.

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 on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- 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.

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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.

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

### Preamble

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To protect your rights, we need to make restrictions that forbid 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.

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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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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.)

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

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a) 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) 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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DOM4J library (dom4j-1.6.1.jar)

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The primary ANTLR guy:

Terence Parr  
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## 2.147 java-property-utils 1.9

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## 2.152 javassist 3.12.1.GA

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## 2.153 javax.servlet 2.5

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## 2.154 jaxb-api 2.2 :3

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## 2.157 jaxrs-api 2.3.4

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```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
```

```
<!DOCTYPE html
```

```
PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```

<html xmlns="http://www.w3.org/1999/xhtml"><head><title xmlns:d="http://docbook.org/ns/docbook"
xmlns:rf="java:org.jboss.highlight.XhtmlRendererFactory">Chapter2.License</title><link rel="stylesheet"
href="css/jbossorg.css" type="text/css"/><meta xmlns:d="http://docbook.org/ns/docbook"
xmlns:rf="java:org.jboss.highlight.XhtmlRendererFactory" name="generator" content="DocBook XSL-NS
Stylesheets V1.74.0"/><meta xmlns:d="http://docbook.org/ns/docbook"
xmlns:rf="java:org.jboss.highlight.XhtmlRendererFactory" http-equiv="Content-Type" content="text/html;
charset=UTF-8"/><link rel="home" href="index.html" title="RESEasy JAX-RS"/><link rel="up"
href="index.html" title="RESEasy JAX-RS"/><link rel="prev" href="Overview.html"
title="Chapter1.Overview"/><link rel="next" href="Installation_Configuration.html"
title="Chapter3.Installation/Configuration"/></head><body><p xmlns:d="http://docbook.org/ns/docbook"
id="title"><a href="http://www.jboss.org" class="site_href"><strong>JBoss.org</strong></a><a
href="http://docs.jboss.org/" class="doc_href"><strong>Community Documentation</strong></a></p><ul
xmlns:d="http://docbook.org/ns/docbook" class="docnav"><li class="previous"><a accesskey="p"
href="Overview.html"><strong>Prev</strong></a></li><li class="next"><a accesskey="n"
href="Installation_Configuration.html"><strong>Next</strong></a></li></ul><div class="chapter" lang="en-
US"><div class="titlepage"><div><div><h2 class="title"><a
id="license"/>Chapter2.License</h2></div></div></div>

```

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```

</p>
</div><ul xmlns:d="http://docbook.org/ns/docbook" class="docnav"><li class="previous"><a accesskey="p"
href="Overview.html"><strong>Prev</strong></a></li><li class="up"><a accesskey="u"
href="#"><strong>Top of page</strong></a></li><li class="home"><a accesskey="h"
href="index.html"><strong>Front page</strong></a></li><li class="next"><a accesskey="n"
href="Installation_Configuration.html"><strong>Next</strong></a></li></ul></body></html>

```

## 2.159 jcip-annotations 1.0

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

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## 2.162 jCommon 1.0.15

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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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```
*/
```

```
package org.jdom;
```

```
/**
```

```
* An XML comment. Methods allow the user to get and set the text of the  
* comment.
```

```
*
```

```
* @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
```

```
* @author Brett McLaughlin
```

```
* @author Jason Hunter
```

```
*/
```

```
public class Comment extends Content {
```

```
    private static final String CVS_ID =
```

```
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";
```

```
    /** Text of the Comment */
```

```
    protected String text;
```

```
    /**
```

```
     * Default, no-args constructor for implementations to use if needed.
```

```
     */
```

```
    protected Comment() {}
```

```
    /**
```

```
     * This creates the comment with the supplied text.
```

```
     *
```

```
     * @param text String content of comment.
```

```
     */
```

```
    public Comment(String text) {
```

```
        setText(text);
```

```
    }
```

```
    /**
```

```
     * Returns the XPath 1.0 string value of this element, which is the
```

```
     * text of this comment.
```

```
     *
```

```
     * @return the text of this comment
```

```
     */
```

```
    public String getValue() {
```

```
        return text;
```

```
    }
```

```
    /**
```

```

* This returns the textual data within the <code>Comment</code>.
*
* @return <code>String</code> - text of comment.
*/
public String getText() {
    return text;
}

/**
* This will set the value of the <code>Comment</code>.
*
* @param text <code>String</code> text for comment.
* @return <code>Comment</code> - this Comment modified.
* @throws IllegalDataException if the given text is illegal for a
*     Comment.
*/
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
* This returns a <code>String</code> representation of the
* <code>Comment</code>, suitable for debugging. If the XML
* representation of the <code>Comment</code> is desired,
* { @link org.jdom.output.XMLOutputter#outputString(Comment) }
* should be used.
*
* @return <code>String</code> - information about the
*     <code>Attribute</code>
*/
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
}

```

## 2.167 jdt-compiler 3.1.1

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May 11, 2006

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## 2.168 jersey-bundle 1.17.1

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## 2.173 JFreeChart 1.0.13

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

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

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

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## 2.175 JGroups 2.6.13 :GA

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Brandon Aaron

Paul Bakaus ([paulbakaus.com](http://paulbakaus.com))

David Bolter

Rich Caloggero

Chi Cheng ([cloudream@gmail.com](mailto:cloudream@gmail.com))

Colin Clark (<http://colin.atrc.utoronto.ca/>)

Michelle D'Souza

Aaron Eisenberger ([aaronchi@gmail.com](mailto:aaronchi@gmail.com))

Ariel Flesler

Bohdan Ganicky

Scott Gonzlez

Marc Grabanski ([m@marcgrabanski.com](mailto:m@marcgrabanski.com))

Klaus Hartl ([stilbuero.de](http://stilbuero.de))

Scott Jehl

Cody Lindley

Eduardo Lundgren ([eduardolundgren@gmail.com](mailto:eduardolundgren@gmail.com))

Todd Parker

John Resig

Patty Toland

Ca-Phun Ung ([yelotofu.com](http://yelowtofu.com))

Keith Wood ([kbwood@virginbroadband.com.au](mailto:kbwood@virginbroadband.com.au))

Maggie Costello Wachs

Richard D. Worth ([rdworth.org](http://rdworth.org))

Jrn Zaefferer ([bassistance.de](http://bassistance.de))

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Brandon Aaron  
Paul Bakaus ([paulbakaus.com](http://paulbakaus.com))  
David Bolter  
Rich Caloggero  
Chi Cheng ([cloudream@gmail.com](mailto:cloudream@gmail.com))  
Colin Clark (<http://colin.atrc.utoronto.ca/>)  
Michelle D'Souza  
Aaron Eisenberger ([aaronchi@gmail.com](mailto:aaronchi@gmail.com))  
Ariel Flesler  
Bohdan Ganicky  
Scott Gonzalez  
Marc Grabanski ([m@marcgrabanski.com](mailto:m@marcgrabanski.com))  
Klaus Hartl ([stilbuero.de](http://stilbuero.de))  
Scott Jehl  
Cody Lindley  
Eduardo Lundgren ([eduardolundgren@gmail.com](mailto:eduardolundgren@gmail.com))  
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## 2.204 jul-to-slf4j 1.7.5

## 2.205 Junit 4.8.

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## 2.206 junit 4.11 4.11

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## 2.207 JXL 2.6.10

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## 2.214 log4j 1.2.16

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# 2.223 Lucene-core 2.9.0

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## 2.234 OAuth Core 20100527

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## 2.235 oauth-provider 20100527.

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```

```
*/
```

```
package net.oauth;
```

```
import java.io.IOException;
import java.net.URISyntaxException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Map;
import java.util.Set;
import java.util.TreeSet;
import net.oauth.signature.OAuthSignatureMethod;
```

```
//TODO: move this class into oauth-provider
```

```
/**
```

```
 * A simple OAuthValidator, which checks the version, whether the timestamp is
 * close to now, the nonce hasn't been used before and the signature is valid.
 * Each check may be overridden.
```

```

* <p>
* This implementation is less than industrial strength:
* <ul>
* <li>Duplicate nonces won't be reliably detected by a service provider running
* in multiple processes, since the used nonces are stored in memory.</li>
* <li>The collection of used nonces is a synchronized choke point</li>
* <li>The used nonces may occupy lots of memory, although you can minimize this
* by calling releaseGarbage periodically.</li>
* <li>The range of acceptable timestamps can't be changed, and there's no
* system for increasing the range smoothly.</li>
* <li>Correcting the clock backward may allow duplicate nonces.</li>
* </ul>
* For a big service provider, it might be better to store used nonces in a
* database.
*
* @author Dirk Balfanz
* @author John Kristian
*/
public class SimpleOAuthValidator implements OAuthValidator {

    /** The default maximum age of timestamps is 5 minutes. */
    public static final long DEFAULT_MAX_TIMESTAMP_AGE = 5 * 60 * 1000L;
    public static final long DEFAULT_TIMESTAMP_WINDOW = DEFAULT_MAX_TIMESTAMP_AGE;

    /**
     * Names of parameters that may not appear twice in a valid message.
     * This limitation is specified by OAuth Core <a
     * href="http://oauth.net/core/1.0#anchor7">section 5</a>.
     */
    public static final Set<String> SINGLE_PARAMETERS = constructSingleParameters();

    private static Set<String> constructSingleParameters() {
        Set<String> s = new HashSet<String>();
        for (String p : new String[] { OAuth.OAUTH_CONSUMER_KEY, OAuth.OAUTH_TOKEN,
        OAuth.OAUTH_TOKEN_SECRET,
            OAuth.OAUTH_CALLBACK, OAuth.OAUTH_SIGNATURE_METHOD,
        OAuth.OAUTH_SIGNATURE, OAuth.OAUTH_TIMESTAMP,
            OAuth.OAUTH_NONCE, OAuth.OAUTH_VERSION }) {
            s.add(p);
        }
        return Collections.unmodifiableSet(s);
    }

    /**
     * Construct a validator that rejects messages more than five minutes old or
     * with a OAuth version other than 1.0.
     */
    public SimpleOAuthValidator() {

```

```

        this(DEFAULT_TIMESTAMP_WINDOW, Double.parseDouble(OAuth.VERSION_1_0));
    }

    /**
     * Public constructor.
     *
     * @param maxTimestampAgeMsec
     *     the range of valid timestamps, in milliseconds into the past
     *     or future. So the total range of valid timestamps is twice
     *     this value, rounded to the nearest second.
     * @param maxVersion
     *     the maximum valid oauth_version
     */
    public SimpleOAuthValidator(long maxTimestampAgeMsec, double maxVersion) {
        this.maxTimestampAgeMsec = maxTimestampAgeMsec;
        this.maxVersion = maxVersion;
    }

    protected final double minVersion = 1.0;
    protected final double maxVersion;
    protected final long maxTimestampAgeMsec;
    private final Set<UsedNonce> usedNonces = new TreeSet<UsedNonce>();

    /**
     * Allow objects that are no longer useful to become garbage.
     *
     * @return the earliest point in time at which another call will release
     *     some garbage, or null to indicate there's nothing currently
     *     stored that will become garbage in future. This value may change,
     *     each time releaseGarbage or validateNonce is called.
     */
    public Date releaseGarbage() {
        return removeOldNonces(currentTimeMsec());
    }

    /**
     * Remove usedNonces with timestamps that are too old to be valid.
     */
    private Date removeOldNonces(long currentTimeMsec) {
        UsedNonce next = null;
        UsedNonce min = new UsedNonce((currentTimeMsec - maxTimestampAgeMsec + 500) / 1000L);
        synchronized (usedNonces) {
            // Because usedNonces is a TreeSet, its iterator produces
            // elements from oldest to newest (their natural order).
            for (Iterator<UsedNonce> iter = usedNonces.iterator(); iter.hasNext();) {
                UsedNonce used = iter.next();
                if (min.compareTo(used) <= 0) {
                    next = used;
                }
            }
        }
    }

```



```

        break; // all the rest are also new enough
    }
    iter.remove(); // too old
}
}
if (next == null)
    return null;
return new Date((next.getTimestamp() * 1000L) + maxTimestampAgeMsec + 500);
}

/** {@inherit}
 * @throws URISyntaxException */
public void validateMessage(OAuthMessage message, OAuthAccessor accessor)
throws OAuthException, IOException, URISyntaxException {
    checkSingleParameters(message);
    validateVersion(message);
    validateTimestampAndNonce(message);
    validateSignature(message, accessor);
}

/** Throw an exception if any SINGLE_PARAMETERS occur repeatedly. */
protected void checkSingleParameters(OAuthMessage message) throws IOException, OAuthException {
    // Check for repeated oauth_ parameters:
    boolean repeated = false;
    Map<String, Collection<String>> nameToValues = new HashMap<String, Collection<String>>();
    for (Map.Entry<String, String> parameter : message.getParameters()) {
        String name = parameter.getKey();
        if (SINGLE_PARAMETERS.contains(name)) {
            Collection<String> values = nameToValues.get(name);
            if (values == null) {
                values = new ArrayList<String>();
                nameToValues.put(name, values);
            } else {
                repeated = true;
            }
            values.add(parameter.getValue());
        }
    }
    if (repeated) {
        Collection<OAuth.Parameter> rejected = new ArrayList<OAuth.Parameter>();
        for (Map.Entry<String, Collection<String>> p : nameToValues.entrySet()) {
            String name = p.getKey();
            Collection<String> values = p.getValue();
            if (values.size() > 1) {
                for (String value : values) {
                    rejected.add(new OAuth.Parameter(name, value));
                }
            }
        }
    }
}

```

```

    }
    OAuthProblemException problem = new
OAuthProblemException(OAuth.Problems.PARAMETER_REJECTED);
    problem.setParameter(OAuth.Problems.OAUTH_PARAMETERS_REJECTED,
OAuth.formEncode(rejected));
    throw problem;
    }
}

protected void validateVersion(OAuthMessage message)
throws OAuthException, IOException {
    String versionString = message.getParameter(OAuth.OAUTH_VERSION);
    if (versionString != null) {
        double version = Double.parseDouble(versionString);
        if (version < minVersion || maxVersion < version) {
            OAuthProblemException problem = new
OAuthProblemException(OAuth.Problems.VERSION_REJECTED);
            problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_VERSIONS, minVersion + "-" +
maxVersion);
            throw problem;
        }
    }
}

/**
 * Throw an exception if the timestamp is out of range or the nonce has been
 * validated previously.
 */
protected void validateTimestampAndNonce(OAuthMessage message)
throws IOException, OAuthProblemException {
    message.requireParameters(OAuth.OAUTH_TIMESTAMP, OAuth.OAUTH_NONCE);
    long timestamp = Long.parseLong(message.getParameter(OAuth.OAUTH_TIMESTAMP));
    long now = currentTimeMsec();
    validateTimestamp(message, timestamp, now);
    validateNonce(message, timestamp, now);
}

/** Throw an exception if the timestamp [sec] is out of range. */
protected void validateTimestamp(OAuthMessage message, long timestamp, long currentTimeMsec) throws
IOException,
    OAuthProblemException {
    long min = (currentTimeMsec - maxTimestampAgeMsec + 500) / 1000L;
    long max = (currentTimeMsec + maxTimestampAgeMsec + 500) / 1000L;
    if (timestamp < min || max < timestamp) {
        OAuthProblemException problem = new
OAuthProblemException(OAuth.Problems.TIMESTAMP_REFUSED);
        problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_TIMESTAMPS, min + "-" + max);
        throw problem;
    }
}

```

```

    }
}

/**
 * Throw an exception if the nonce has been validated previously.
 *
 * @return the earliest point in time at which a call to releaseGarbage
 *         will actually release some garbage, or null to indicate there's
 *         nothing currently stored that will become garbage in future.
 */
protected Date validateNonce(OAuthMessage message, long timestamp, long currentTimeMsec) throws
IOException,
    OAuthProblemException {
    UsedNonce nonce = new UsedNonce(timestamp,
        message.getParameter(OAuth.OAUTH_NONCE), message.getConsumerKey(), message.getToken());
    /**
     * The OAuth standard requires the token to be omitted from the stored
     * nonce. But I include it, to harmonize with a Consumer that generates
     * nonces using several independent computers, each with its own token.
     */
    boolean valid = false;
    synchronized (usedNonces) {
        valid = usedNonces.add(nonce);
    }
    if (!valid) {
        throw new OAuthProblemException(OAuth.Problems.NONCE_USED);
    }
    return removeOldNonces(currentTimeMsec);
}

protected void validateSignature(OAuthMessage message, OAuthAccessor accessor)
throws OAuthException, IOException, URISyntaxException {
    message.requireParameters(OAuth.OAUTH_CONSUMER_KEY,
        OAuth.OAUTH_SIGNATURE_METHOD, OAuth.OAUTH_SIGNATURE);
    OAuthSignatureMethod.newSigner(message, accessor).validate(message);
}

/** Get the number of milliseconds since midnight, January 1, 1970 UTC. */
protected long currentTimeMsec() {
    return System.currentTimeMillis();
}

/**
 * Selected parameters from an OAuth request, in a form suitable for
 * detecting duplicate requests. The implementation is optimized for the
 * comparison operations (compareTo, equals and hashCode).
 *
 * @author John Kristian

```

```

*/
private static class UsedNonce implements Comparable<UsedNonce> {
    /**
     * Construct an object containing the given timestamp, nonce and other
     * parameters. The order of parameters is significant.
     */
    UsedNonce(long timestamp, String... nonceEtc) {
        StringBuilder key = new StringBuilder(String.format("%20d", Long.valueOf(timestamp)));
        // The blank padding ensures that timestamps are compared as numbers.
        for (String etc : nonceEtc) {
            key.append("&").append(etc == null ? " " : OAuth.percentEncode(etc));
            // A null value is different from "" or any other String.
        }
        sortKey = key.toString();
    }

    private final String sortKey;

    long getTimestamp() {
        int end = sortKey.indexOf("&");
        if (end < 0)
            end = sortKey.length();
        return Long.parseLong(sortKey.substring(0, end).trim());
    }

    /**
     * Determine the relative order of <code>this</code> and
     * <code>that</code>, as specified by Comparable. The timestamp is most
     * significant; that is, if the timestamps are different, return 1 or
     * -1. If <code>this</code> contains only a timestamp (with no nonce
     * etc.), return -1 or 0. The treatment of the nonce etc. is murky,
     * although 0 is returned only if they're all equal.
     */
    public int compareTo(UsedNonce that) {
        return (that == null) ? 1 : sortKey.compareTo(that.sortKey);
    }

    @Override
    public int hashCode() {
        return sortKey.hashCode();
    }

    /**
     * Return true iff <code>this</code> and <code>that</code> contain equal
     * timestamps, nonce etc., in the same order.
     */
    @Override
    public boolean equals(Object that) {

```

```

    if (that == null)
        return false;
    if (that == this)
        return true;
    if (that.getClass() != getClass())
        return false;
    return sortKey.equals(((UsedNonce) that).sortKey);
}

@Override
public String toString() {
    return sortKey;
}
}
}

```

## 2.236 openid4java 0.9.4

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Version 2.0, January 2004

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## 2.237 openssl 1.0.1i

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## 2.238 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
 */
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## 2.239 org.restlet 2.0.9

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## 2.240 org.restlet.example 2.0.9

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## 2.241 org.restlet.ext.atom 2.1.0

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## 2.243 org.restlet.ext.crypto 2.1.0

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## 2.244 org.restlet.ext.crypto 2.0.9

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## 2.246 org.restlet.ext.fileupload 2.0.9

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# 2.249 org.restlet.ext.freemarker 2.1.0

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## 2.250 org.restlet.ext.gwt 2.0.9

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## 2.252 org.restlet.ext.html 2.1.0

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## 2.254 org.restlet.ext.httpclient 2.0.9

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## 2.255 org.restlet.ext.jaas 2.0.9

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## 2.257 org.restlet.ext.jackson 2.0.9

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 */
```

## 2.260 org.restlet.ext.javamail 2.0.9

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## 2.261 org.restlet.ext.jaxb 2.1.0

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## 2.263 org.restlet.ext.jaxrs 2.1.0

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## 2.266 org.restlet.ext.jdbc 2.1.0

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## 2.267 org.restlet.ext.jetty 2.1.0

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## 2.269 org.restlet.ext.jibx 2.1.0

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## 2.270 org.restlet.ext.json 2.0.9

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## 2.271 org.restlet.ext.json 2.1.0

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## 2.272 org.restlet.ext.lucene 2.1.0

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## 2.275 org.restlet.ext.net 2.0.9

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## 2.276 org.restlet.ext.oauth 2.1.0

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## 2.278 org.restlet.ext.odata 2.0.9

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## 2.279 org.restlet.ext.openid 2.1.0

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## 2.281 org.restlet.ext.rdf 2.1.0



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## 2.284 org.restlet.ext.sdc 2.1.0

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## 2.286 org.restlet.ext.simple 2.1.0

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## 2.287 org.restlet.ext.sip 2.1.0

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## 2.290 org.restlet.ext.spring 2.0.9

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## 2.291 org.restlet.ext.spring 2.1.0

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## 2.293 org.restlet.ext.ssl 2.0.9

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## 2.294 org.restlet.ext.velocity 2.0.9

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## 2.295 org.restlet.ext.velocity 2.1.0

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## 2.296 org.restlet.ext.wadl 2.1.0

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## 2.297 org.restlet.ext.wadl 2.0.9

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## 2.298 org.restlet.ext.xdb 2.0.9

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## 2.299 org.restlet.ext.xml 2.1.0

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## 2.300 org.restlet.ext.xml 2.0.9

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## 2.302 org.restlet.ext.xtream 2.0.9

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## 2.303 org.restlet.test 2.1.0

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# 2.305 overlib 4.21

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## 2.306 persistence-api 1.0

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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see [www.fontconfig.org](http://www.fontconfig.org)) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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2006-Jan-27

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Our home page can be found at

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## 2.324 resteasy-jackson-provider 2.3.4.Final

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## 2.325 resteasy-jaxb-provider 2.3.6 Final

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```

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

That's all there is to it!

## 2.326 resteasy-jaxb-provider 2.3.2.Final

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/\*

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\*

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

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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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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## 2.328 resteasy-jaxrs 2.3.6.Final

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

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

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Mark James

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#### 8. Miscellaneous



```

*****/
package org.sonatype.guice.bean.locators;

import org.sonatype.guice.bean.reflect.DeferredProvider;

import com.google.inject.Provider;
import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * {@link BindingTargetVisitor} that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor
    extends DefaultBindingTargetVisitor<Object, Class<?>>
{
    // -----
    // Constants
    // -----

    static final ImplementationVisitor THIS = new ImplementationVisitor();

    // -----
    // Public methods
    // -----

    @Override
    public Class<?> visit( final UntargettedBinding<?> binding )
    {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final LinkedKeyBinding<?> binding )
    {
        // this assumes only one level of indirection: api-->impl
        return binding.getLinkedKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final ConstructorBinding<?> binding )
    {
        return binding.getConstructor().getDeclaringType().getRawType();
    }
}

```

```

}

@Override
public Class<?> visit( final InstanceBinding<?> binding )
{
    return binding.getInstance().getClass();
}

@Override
public Class<?> visit( final ProviderInstanceBinding<?> binding )
{
    final Provider<?> provider = binding.getProviderInstance();
    if ( provider instanceof DeferredProvider<?> )
    {
        try
        {
            // deferred providers let us peek at the underlying implementation type
            return ( (DeferredProvider<?>) provider ).getImplementationClass().load();
        }
        catch ( final TypeNotPresentException e ) // NOPMD
        {
            // fall-through
        }
    }
    return null;
}

@Override
public Class<?> visit( final ExposedBinding<?> binding )
{
    return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}
}

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*****/
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;

```

```

import java.lang.annotation.Target;

import javax.inject.Qualifier;

/**
 * {@link Qualifier} used to record and tag implicit bindings (not for direct use).
 */
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = { } )
public @interface Implicit
{
}

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package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;

import org.sonatype.guice.bean.reflect.Logs;

import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes @{@link ImplementedBy}, @{@link ProvidedBy}, and concrete types.
 */
final class ImplicitBindings
{
    // -----
    // Implementation fields
    // -----

    private final Iterable<Injector> injectors;

```

```

// -----
// Constructors
// -----

ImplicitBindings( final BeanLocator locator )
{
    injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
}

// -----
// Public methods
// -----

@SuppressWarnings( { "unchecked", "rawtypes" } )
public <T> Binding<T> get( final TypeLiteral<T> type )
{
    final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
    for ( final Injector i : injectors )
    {
        try
        {
            // first round: check for any re-written implicit bindings
            final Binding binding = i.getBindings().get( implicitKey );
            if ( null != binding )
            {
                Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }

    final Key justInTimeKey = Key.get( type );
    for ( final Injector i : injectors )
    {
        try
        {
            // second round: fall back to just-in-time lookup
            final Binding binding = i.getBinding( justInTimeKey );
            if ( InjectorPublisher.isVisible( binding ) )
            {
                Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
                return binding;
            }
        }
    }
}

```

```
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }
    return null;
}
}
```

## 2.351 sjsxp 1.0.1

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```
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 * $Id: license.txt,v 1.2 2006/04/01 06:01:50 jeffsuttor Exp $
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 */
```

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\*/

## 2.366 spring-asm 3.0.0.RELEASE

### 2.366.1 Available under license :

Link to license in SpringSource repository broken. Opened a case with SpringSource support:

Linda Shonk (lshonk)

From: Yathiraj Udupi (yudupi)

Sent: Friday, August 06, 2010 7:14 AM

To: Yathiraj Udupi (yudupi); Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

Also Linda,

Just to clarify, what they mean by Spring projects is that - all `?org.springframework.XXXX?` modules, such as `org.springframework.beans`, `org.springframework.asm`, etc.

All the other third party jars distributed by springsource in the enterprise repository are named with a prefix `?org.springsource.XXXX?` for e.g. `org.springsource.organtlr` and they have their own separate licenses.

Thanks,

Yathi.

From: Yathiraj Udupi (yudupi)

Sent: Friday, August 06, 2010 7:00 AM

To: Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Hi Linda,

It should be the same Apache license for all Spring framework modules for all versions. So you should be fine. But

in

the shipping XMP platform, we don't have any 3.0.1.RELEASE versions for any spring components.

message from springsource ?

?All Spring projects are licensed under the terms of the Apache License, Version 2.0. You may download the Apache License using the link below:

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HTML format

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

For more info with regards to the Apache license:

<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

?

2

Thanks,

Yathi.

From: Linda Shonk (lshonk)

Sent: Thursday, August 05, 2010 12:37 PM

To: Yathiraj Udipi (yudupi)

Subject: FW: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Got it okay for the 3.0.0 release. The 3.0.1 Release is also missing license information in the repository.

Linda

From: SpringSource Support [mailto:support@springsource.com]

Sent: Thursday, August 05, 2010 8:03 AM

To: Yathiraj Udipi (yudupi)

Cc: Linda Shonk (lshonk); Andrew Ballantyne (aballant)

Subject: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise

Repository

Please do not reply to this email, login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

Reference # 9815

Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

-----  
Product: Spring Modules

Sub product: Other

Severity: Development

Date Created: 2010-08-03 21:19:19

Last Updated: 2010-08-05 03:27:03

Status: Pending Customer FB

Version: 3.0.0.RELE

Platform: Other

CC: lshonk@cisco.com, aballant@cisco.com

Discussion Thread

-----  
Yathiraj Udupi on 2010-08-05 15:03:27:

Thanks Lou-ann for your response.

on 2010-08-05 05:36:54:

Hi Yathiraj,

Were you able check the link to the Apache license? I am coordinating with repository admin to fix the licenses

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on the SpringSource repository. For the mean time, you may use the link that I sent in my last response to get the license for Spring 3.0.x

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 12:00:17:

Hi Yathiraj,

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<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 00:14:46:

Hi Yathiraj,

I will look into this and will get back to you.

Regards,

Lou-ann

Yathiraj Udupi on 2010-08-03 21:19:19:

Hi,

We need to update the license information in our company License portal, for the Spring bundles that are shipped in Springsource dm Server 2.0, in the repository/ext folder.

This is required URGENTLY, so that we can ship our release.

When we look for the license file link from the Springsource enterprise repository, we get an error.

For example,

<http://www.springsource.com/repository/app/bundle/version/detail?name=org.springframework.asm&version=3>

4

.0.0.RELEASE

In the above link, the License hyperlink gives an error. Similarly we need the licence for all 3.0.0.RELEASE versioned Springframework module jars such as ASM, Beans, Context, Expression, JDBC, Test, Web, and others included in the repository/ext folder. All the "License" links for all of these modules throw an error like this -

<Error>

<Code>NoSuchKey</Code>

<Message>The specified key does not exist.</Message>

?

<Key>  
ivy/bundles/release/org.springframework/org.springframework.asm/3.0.0.RELEASE/license-3.0.0.RELEASE.txt  
</Key>  
<RequestId>C36AA496B452C999</RequestId>  
?  
<HostId>  
fdPz4L7hLvTnc8Do+aiWkb2Ck1Y6yu5ela3EueZ5p1ySr5w6Gcp0FgutiZxERJSp  
</HostId>  
</Error>

Can you please provide the license files for all of the Springframework modules in the repository/ext ?

Thanks,

Yathi.

Incident update link:

login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at

[http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

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## 2.367 spring-asm 3.1.2.RELEASE

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## 2.384 spring-expression 3.1.2.RELEASE

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Version 2.0, January 2004

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## 2.385 spring-expression 3.0.0.RELEASE

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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 = null;

    private Boolean isAfterAdvice = null;

    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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```

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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());  
    }  
  
}
```

## 2.386 spring-framework 3.1.2

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```
<?xml version="1.0" encoding="UTF-8"?>
<psf version="2.0">
<provider id="org.tigris.subversion.subclipse.core.svnnature">
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.aop,org.springframework.aop"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
```

```
framework/trunk/org.springframework.beans,org.springframework.beans"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.context,org.springframework.context"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.context.support,org.springframework.context.support"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.core,org.springframework.core"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.expression,org.springframework.expression"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.instrument,org.springframework.instrument"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.instrument.tomcat,org.springframework.instrument.tomcat"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.jdbc,org.springframework.jdbc"/>
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framework/trunk/org.springframework.jms,org.springframework.jms"/>
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<project reference="0.9.3,https://src.springframework.org/svn/spring-
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<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.web,org.springframework.web"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.web.portlet,org.springframework.web.portlet"/>
<project reference="0.9.3,https://src.springframework.org/svn/spring-
framework/trunk/org.springframework.web.servlet,org.springframework.web.servlet"/>
</provider>
</psf>
```

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Version 2.0, January 2004

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### 1.0

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## 2.413 wstx-asl 3.2.7

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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 <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).  
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```

```

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-- activemq-web

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## 5.3 activemq-osgi 5.9.0

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-- activemq-xmpp

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-- activemq-web

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## 5.11 apache-servicemix-bundles-jasypt

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## 5.12 apache-servicemix-bundles-velocity

### 1.7.0.5

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### 1.0.1

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# 5.52 jackson-core-asl 1.9.12

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## 5.53 jackson-jaxrs 1.9.12

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## 5.56 java-uuid-generator 3.1.2

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## 5.57 jaxb2-basics-runtime 0.6.4

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## 5.58 JCraft JSch 0.1.50

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```
/* -*-mode:java; c-basic-offset:2; indent-tabs-mode:nil -*- */
```

```
/*
```

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\*/

```
package com.jcraft.jsch;

public class Buffer{
    final byte[] tmp=new byte[4];
    byte[] buffer;
    int index;
    int s;
    public Buffer(int size){
        buffer=new byte[size];
        index=0;
        s=0;
    }
    public Buffer(byte[] buffer){
        this.buffer=buffer;
        index=0;
        s=0;
    }
    public Buffer(){ this(1024*10*2); }
    public void putByte(byte foo){
        buffer[index++]=foo;
    }
    public void putByte(byte[] foo) {
        putByte(foo, 0, foo.length);
    }
    public void putByte(byte[] foo, int begin, int length) {
        System.arraycopy(foo, begin, buffer, index, length);
        index+=length;
    }
    public void putString(byte[] foo){
        putString(foo, 0, foo.length);
    }
    public void putString(byte[] foo, int begin, int length) {
```

```

    putInt(length);
    putByte(foo, begin, length);
}
public void putInt(int val) {
    tmp[0]=(byte)(val >>> 24);
    tmp[1]=(byte)(val >>> 16);
    tmp[2]=(byte)(val >>> 8);
    tmp[3]=(byte)(val);
    System.arraycopy(tmp, 0, buffer, index, 4);
    index+=4;
}
public void putLong(long val) {
    tmp[0]=(byte)(val >>> 56);
    tmp[1]=(byte)(val >>> 48);
    tmp[2]=(byte)(val >>> 40);
    tmp[3]=(byte)(val >>> 32);
    System.arraycopy(tmp, 0, buffer, index, 4);
    tmp[0]=(byte)(val >>> 24);
    tmp[1]=(byte)(val >>> 16);
    tmp[2]=(byte)(val >>> 8);
    tmp[3]=(byte)(val);
    System.arraycopy(tmp, 0, buffer, index+4, 4);
    index+=8;
}
void skip(int n) {
    index+=n;
}
void putPad(int n) {
    while(n>0){
        buffer[index++]=(byte)0;
        n--;
    }
}
public void putMPInt(byte[] foo){
    int i=foo.length;
    if((foo[0]&0x80)!=0){
        i++;
        putInt(i);
        putByte((byte)0);
    }
    else{
        putInt(i);
    }
    putByte(foo);
}
public int getLength(){
    return index-s;
}

```

```

public int getOffset(){
    return s;
}
public void setOffset(int s){
    this.s=s;
}
public long getLong(){
    long foo = getInt()&0xffffffffL;
    foo = ((foo<<32) | (getInt()&0xffffffffL));
    return foo;
}
public int getInt(){
    int foo = getShort();
    foo = ((foo<<16)&0xffff0000) | (getShort()&0xffff);
    return foo;
}
public long getUInt(){
    long foo = 0L;
    long bar = 0L;
    foo = getByte();
    foo = ((foo<<8)&0xff00)|(getByte()&0xff);
    bar = getByte();
    bar = ((bar<<8)&0xff00)|(getByte()&0xff);
    foo = ((foo<<16)&0xffff0000) | (bar&0xffff);
    return foo;
}
int getShort() {
    int foo = getByte();
    foo = ((foo<<8)&0xff00)|(getByte()&0xff);
    return foo;
}
public int getByte() {
    return (buffer[s++]&0xff);
}
public void getByte(byte[] foo) {
    getByte(foo, 0, foo.length);
}
void getByte(byte[] foo, int start, int len) {
    System.arraycopy(buffer, s, foo, start, len);
    s+=len;
}
public int getByte(int len) {
    int foo=s;
    s+=len;
    return foo;
}
public byte[] getMPInt() {
    int i=getInt(); // uint32

```

```

if(i<0 || // bigger than 0x7fffffff
   i>8*1024){
    // TODO: an exception should be thrown.
    i = 8*1024; // the session will be broken, but working around OOME.
}
byte[] foo=new byte[i];
getBytes(foo, 0, i);
return foo;
}
public byte[] getMPIntBits() {
    int bits=getInt();
    int bytes=(bits+7)/8;
    byte[] foo=new byte[bytes];
    getBytes(foo, 0, bytes);
    if((foo[0]&0x80)!=0){
        byte[] bar=new byte[foo.length+1];
        bar[0]=0; // ??
        System.arraycopy(foo, 0, bar, 1, foo.length);
        foo=bar;
    }
    return foo;
}
public byte[] getString() {
    int i = getInt(); // uint32
    if(i<0 || // bigger than 0x7fffffff
       i>256*1024){
        // TODO: an exception should be thrown.
        i = 256*1024; // the session will be broken, but working around OOME.
    }
    byte[] foo=new byte[i];
    getBytes(foo, 0, i);
    return foo;
}
byte[] getString(int[]start, int[]len) {
    int i=getInt();
    start[0]=getBytes(i);
    len[0]=i;
    return buffer;
}
public void reset(){
    index=0;
    s=0;
}
public void shift(){
    if(s==0)return;
    System.arraycopy(buffer, s, buffer, 0, index-s);
    index=index-s;
    s=0;
}

```



```

}
void rewind(){
    s=0;
}

byte getCommand(){
    return buffer[5];
}

void checkFreeSize(int n){
    if(buffer.length<index+n){
        byte[] tmp = new byte[buffer.length*2];
        System.arraycopy(buffer, 0, tmp, 0, index);
        buffer = tmp;
    }
}

byte[][] getBytes(int n, String msg) throws JSchException {
    byte[][] tmp = new byte[n][];
    for(int i = 0; i < n; i++){
        int j = getInt();
        if(getLength() < j){
            throw new JSchException(msg);
        }
        tmp[i] = new byte[j];
        getByte(tmp[i]);
    }
    return tmp;
}

/*
static Buffer fromBytes(byte[]... args){
    int length = args.length*4;
    for(int i = 0; i < args.length; i++){
        length += args[i].length;
    }
    Buffer buf = new Buffer(length);
    for(int i = 0; i < args.length; i++){
        buf.putString(args[i]);
    }
    return buf;
}
*/

static Buffer fromBytes(byte[][] args){
    int length = args.length*4;
    for(int i = 0; i < args.length; i++){
        length += args[i].length;
    }
}

```

```

    }
    Buffer buf = new Buffer(length);
    for(int i = 0; i < args.length; i++){
        buf.putString(args[i]);
    }
    return buf;
}

/*
static String[] chars={
    "0","1","2","3","4","5","6","7","8","9", "a","b","c","d","e","f"
};
static void dump_buffer(){
    int foo;
    for(int i=0; i<tmp_buffer_index; i++){
        foo=tmp_buffer[i]&0xff;
        System.err.print(chars[(foo>>>4)&0xf]);
        System.err.print(chars[foo&0xf]);
        if(i%16==15){
            System.err.println("");
            continue;
        }
        if(i>0 && i%2==1){
            System.err.print(" ");
        }
    }
    System.err.println("");
}
static void dump(byte[] b){
    dump(b, 0, b.length);
}
static void dump(byte[] b, int s, int l){
    for(int i=s; i<s+l; i++){
        System.err.print(Integer.toHexString(b[i]&0xff)+":");
    }
    System.err.println("");
}
*/
}

```

## 5.59 Jettison 1.3.4

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>

Joseph Schorr <jschorr@google.com>

Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>

Frank Yellin

Neal Norwitz <nnorwitz@google.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ambrose Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>

- \* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <proppy@aminche.com>

- \* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

- \* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

- \* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

- \* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

- \* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- \* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

- \* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

- \* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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# 5.65 metrics-core 3.0.2

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## 5.71 netty 4.0.23 4.0.23.Final

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```
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 */
```

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

```
import io.netty.util.ResourceLeak;
```

```
import java.nio.ByteOrder;
```

```
final class SimpleLeakAwareByteBuf extends WrappedByteBuf {
```

```
    private final ResourceLeak leak;
```

```
    SimpleLeakAwareByteBuf(ByteBuf buf, ResourceLeak leak) {
        super(buf);
        this.leak = leak;
    }
```

```
    @Override
```

```
    public boolean release() {
        boolean deallocated = super.release();
        if (deallocated) {
```

```

        leak.close();
    }
    return deallocated;
}

@Override
public boolean release(int decrement) {
    boolean deallocated = super.release(decrement);
    if (deallocated) {
        leak.close();
    }
    return deallocated;
}

@Override
public ByteBuf order(ByteOrder endianness) {
    leak.record();
    if (order() == endianness) {
        return this;
    } else {
        return new SimpleLeakAwareByteBuf(super.order(endianness), leak);
    }
}

@Override
public ByteBuf slice() {
    return new SimpleLeakAwareByteBuf(super.slice(), leak);
}

@Override
public ByteBuf slice(int index, int length) {
    return new SimpleLeakAwareByteBuf(super.slice(index, length), leak);
}

@Override
public ByteBuf duplicate() {
    return new SimpleLeakAwareByteBuf(super.duplicate(), leak);
}

@Override
public ByteBuf readSlice(int length) {
    return new SimpleLeakAwareByteBuf(super.readSlice(length), leak);
}
}
/*
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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 + ".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 ByteBuffer slice(int index, int length) {
        checkIndex(index, length);
        if (length == 0) {
            return Unpooled.EMPTY_BUFFER;
        }
        return buffer.slice(index + adjustment, length);
    }

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

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

    @Override
    public ByteBuffer 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, ByteBuffer 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.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 AbstractDerivedByteBuffer {

    private final ByteBuffer buffer;

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

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

```

```

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

    @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 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 ByteBuf copy(int index, int length) {
    return buffer.copy(index, length);
}

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

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

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

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

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

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

@Override
public ByteBuffer 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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 */

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, ByteBuffer> fragments = new HashMap<Integer, ByteBuffer>();

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

        ByteBuffer 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();
    }
}

```

# 5.72 netty project 3.2.9 :final

## 5.72.1 Available under license :

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## 5.87 org.apache.servicemix.specs.jsr311-api

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# 5.88 org.apache.servicemix.specs.stax-api

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### 4.01 :1

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Upstream Authors:

Eliot Horowitz  
Dwight Merriman  
Aaron Staple  
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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 8.12 apache-tomcat 6.0.37

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\_crypto.js - internally uses AES algorithm

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Taken from <http://www.movable-type.co.uk/scripts/aes.html>

## 8.24 cglib 2.1.88

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\*/

package net.sf.cglib.proxy;

import java.lang.reflect.Method;

import java.util.\*;

import net.sf.cglib.core.\*;

import org.objectweb.asm.ClassVisitor;

```

import org.objectweb.asm.Type;

/**
 * @author Chris Nokleberg
 * @version $Id: MixinEmitter.java,v 1.9 2006/08/27 21:04:37 herbyderby Exp $
 */
class MixinEmitter extends ClassEmitter {
    private static final String FIELD_NAME = "CGLIB$DELEGATES";
    private static final Signature CSTRUCT_OBJECT_ARRAY =
        TypeUtils.parseConstructor("Object[]");
    private static final Type MIXIN =
        TypeUtils.parseType("net.sf.cglib.proxy.Mixin");
    private static final Signature NEW_INSTANCE =
        new Signature("newInstance", MIXIN, new Type[]{ Constants.TYPE_OBJECT_ARRAY });

    public MixinEmitter(ClassVisitor v, String className, Class[] classes, int[] route) {
        super(v);

        begin_class(Constants.V1_2,
            Constants.ACC_PUBLIC,
            className,
            MIXIN,
            TypeUtils.getTypes(getInterfaces(classes)),
            Constants.SOURCE_FILE);
        EmitUtils.null_constructor(this);
        EmitUtils.factory_method(this, NEW_INSTANCE);

        declare_field(Constants.ACC_PRIVATE, FIELD_NAME, Constants.TYPE_OBJECT_ARRAY, null);

        CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT_ARRAY, null);
        e.load_this();
        e.super_invoke_constructor();
        e.load_this();
        e.load_arg(0);
        e.putfield(FIELD_NAME);
        e.return_value();
        e.end_method();

        Set unique = new HashSet();
        for (int i = 0; i < classes.length; i++) {
            Method[] methods = getMethods(classes[i]);
            for (int j = 0; j < methods.length; j++) {
                if (unique.add(MethodWrapper.create(methods[j]))) {
                    MethodInfo method = ReflectUtils.getMethodInfo(methods[j]);
                    e = EmitUtils.begin_method(this, method, Constants.ACC_PUBLIC);
                    e.load_this();
                    e.getfield(FIELD_NAME);
                    e.aaload((route != null) ? route[i] : i);
                }
            }
        }
    }
}

```

```

        e.checkcast(method.getClassInfo().getType());
        e.load_args();
        e.invoke(method);
        e.return_value();
        e.end_method();
    }
}

end_class();
}

protected Class[] getInterfaces(Class[] classes) {
    return classes;
}

protected Method[] getMethods(Class type) {
    return type.getMethods();
}
}
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 */
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.util.*;
import net.sf.cglib.core.CollectionUtils;
import net.sf.cglib.core.ReflectUtils;
import net.sf.cglib.core.RejectModifierPredicate;
import org.objectweb.asm.ClassVisitor;

/**
 * @author Chris Nokleberg
 * @version $Id: MixinEverythingEmitter.java,v 1.3 2004/06/24 21:15:19 herbyderby Exp $

```

```

*/
class MixinEverythingEmitter extends MixinEmitter {

    public MixinEverythingEmitter(ClassVisitor v, String className, Class[] classes) {
        super(v, className, classes, null);
    }

    protected Class[] getInterfaces(Class[] classes) {
        List list = new ArrayList();
        for (int i = 0; i < classes.length; i++) {
            ReflectUtils.addAllInterfaces(classes[i], list);
        }
        return (Class[])list.toArray(new Class[list.size()]);
    }

    protected Method[] getMethods(Class type) {
        List methods = new ArrayList(Arrays.asList(type.getMethods()));
        CollectionUtils.filter(methods, new RejectModifierPredicate(Modifier.FINAL | Modifier.STATIC));
        return (Method[])methods.toArray(new Method[methods.size()]);
    }
}
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*/
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import net.sf.cglib.core.ReflectUtils;
import org.objectweb.asm.ClassVisitor;

/**
* @author Chris Nokleberg
* @version $Id: MixinBeanEmitter.java,v 1.2 2004/06/24 21:15:20 herbyderby Exp $
*/
class MixinBeanEmitter extends MixinEmitter {
    public MixinBeanEmitter(ClassVisitor v, String className, Class[] classes) {

```

```

    super(v, className, classes, null);
}

protected Class[] getInterfaces(Class[] classes) {
    return null;
}

protected Method[] getMethods(Class type) {
    return ReflectUtils.getPropertyMethods(ReflectUtils.getBeanProperties(type), true, true);
}
}
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 */
package net.sf.cglib.reflect;

import java.lang.reflect.*;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

class FastClassEmitter extends ClassEmitter {
    private static final Signature CSTRUCT_CLASS =
        TypeUtils.parseConstructor("Class");
    private static final Signature METHOD_GET_INDEX =
        TypeUtils.parseSignature("int getIndex(String, Class[])");
    private static final Signature SIGNATURE_GET_INDEX =
        new Signature("getIndex", Type.INT_TYPE, new Type[]{ Constants.TYPE_SIGNATURE });
    private static final Signature TO_STRING =
        TypeUtils.parseSignature("String toString()");
    private static final Signature CONSTRUCTOR_GET_INDEX =
        TypeUtils.parseSignature("int getIndex(Class[])");
    private static final Signature INVOKE =
        TypeUtils.parseSignature("Object invoke(int, Object, Object[])");

```



```

private static final Signature NEW_INSTANCE =
    TypeUtils.parseSignature("Object newInstance(int, Object[])");
private static final Signature GET_MAX_INDEX =
    TypeUtils.parseSignature("int getMaxIndex()");
private static final Signature GET_SIGNATURE_WITHOUT_RETURN_TYPE =
    TypeUtils.parseSignature("String getSignatureWithoutReturnType(String, Class[])");
private static final Type FAST_CLASS =
    TypeUtils.parseType("net.sf.cglib.reflect.FastClass");
private static final Type ILLEGAL_ARGUMENT_EXCEPTION =
    TypeUtils.parseType("IllegalArgumentException");
private static final Type INVOCATION_TARGET_EXCEPTION =
    TypeUtils.parseType("java.lang.reflect.InvocationTargetException");
private static final Type[] INVOCATION_TARGET_EXCEPTION_ARRAY = {
INVOCATION_TARGET_EXCEPTION };

public FastClassEmitter(ClassVisitor v, String className, Class type) {
    super(v);

    Type base = Type.getType(type);
    begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, FAST_CLASS, null,
Constants.SOURCE_FILE);

    // constructor
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_CLASS, null);
    e.load_this();
    e.load_args();
    e.super_invoke_constructor(CSTRUCT_CLASS);
    e.return_value();
    e.end_method();

    VisibilityPredicate vp = new VisibilityPredicate(type, false);
    List methods = ReflectUtils.addAllMethods(type, new ArrayList());
    CollectionUtils.filter(methods, vp);
    CollectionUtils.filter(methods, new DuplicatesPredicate());
    List constructors = new ArrayList(Arrays.asList(type.getDeclaredConstructors()));
    CollectionUtils.filter(constructors, vp);

    // getIndex(String)
    emitIndexBySignature(methods);

    // getIndex(String, Class[])
    emitIndexByClassArray(methods);

    // getIndex(Class[])
    e = begin_method(Constants.ACC_PUBLIC, CONSTRUCTOR_GET_INDEX, null);
    e.load_args();
    List info = CollectionUtils.transform(constructors, MethodInfoTransformer.getInstance());
    EmitUtils.constructor_switch(e, info, new GetIndexCallback(e, info));

```

```

e.end_method();

// invoke(int, Object, Object[])
e = begin_method(Constants.ACC_PUBLIC, INVOKE, INVOCATION_TARGET_EXCEPTION_ARRAY);
e.load_arg(1);
e.checkcast(base);
e.load_arg(0);
invokeSwitchHelper(e, methods, 2, base);
e.end_method();

// newInstance(int, Object[])
e = begin_method(Constants.ACC_PUBLIC, NEW_INSTANCE,
INVOCATION_TARGET_EXCEPTION_ARRAY);
e.new_instance(base);
e.dup();
e.load_arg(0);
invokeSwitchHelper(e, constructors, 1, base);
e.end_method();

// getMaxIndex()
e = begin_method(Constants.ACC_PUBLIC, GET_MAX_INDEX, null);
e.push(methods.size() - 1);
e.return_value();
e.end_method();

end_class();
}

// TODO: support constructor indices ("<init>")
private void emitIndexBySignature(List methods) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SIGNATURE_GET_INDEX, null);
    List signatures = CollectionUtils.transform(methods, new Transformer() {
        public Object transform(Object obj) {
            return ReflectUtils.getSignature((Method)obj).toString();
        }
    });
    e.load_arg(0);
    e.invoke_virtual(Constants.TYPE_OBJECT, TO_STRING);
    signatureSwitchHelper(e, signatures);
    e.end_method();
}

private static final int TOO_MANY_METHODS = 100; // TODO
private void emitIndexByClassArray(List methods) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, METHOD_GET_INDEX, null);
    if (methods.size() > TOO_MANY_METHODS) {
        // hack for big classes
        List signatures = CollectionUtils.transform(methods, new Transformer() {

```

```

        public Object transform(Object obj) {
            String s = ReflectUtils.getSignature((Method)obj).toString();
            return s.substring(0, s.lastIndexOf(',') + 1);
        }
    });
    e.load_args();
    e.invoke_static(FAST_CLASS, GET_SIGNATURE_WITHOUT_RETURN_TYPE);
    signatureSwitchHelper(e, signatures);
} else {
    e.load_args();
    List info = CollectionUtils.transform(methods, MethodInfoTransformer.getInstance());
    EmitUtils.method_switch(e, info, new GetIndexCallback(e, info));
}
e.end_method();
}

private void signatureSwitchHelper(final CodeEmitter e, final List signatures) {
    ObjectSwitchCallback callback = new ObjectSwitchCallback() {
        public void processCase(Object key, Label end) {
            // TODO: remove linear indexOf
            e.push(signatures.indexOf(key));
            e.return_value();
        }
        public void processDefault() {
            e.push(-1);
            e.return_value();
        }
    };
    EmitUtils.string_switch(e,
        (String[])signatures.toArray(new String[signatures.size()]),
        Constants.SWITCH_STYLE_HASH,
        callback);
}

private static void invokeSwitchHelper(final CodeEmitter e, List members, final int arg, final Type base) {
    final List info = CollectionUtils.transform(members, MethodInfoTransformer.getInstance());
    final Label illegalArg = e.make_label();
    Block block = e.begin_block();
    e.process_switch(getIntRange(info.size()), new ProcessSwitchCallback() {
        public void processCase(int key, Label end) {
            MethodInfo method = (MethodInfo)info.get(key);
            Type[] types = method.getSignature().getArgumentTypes();
            for (int i = 0; i < types.length; i++) {
                e.load_arg(arg);
                e.aaload(i);
                e.unbox(types[i]);
            }
            // TODO: change method lookup process so MethodInfo will already reference base

```

```

        // instead of superclass when superclass method is inaccessible
        e.invoke(method, base);
        if (!TypeUtils.isConstructor(method)) {
            e.box(method.getSignature().getReturnType());
        }
        e.return_value();
    }
    public void processDefault() {
        e.goTo(illegalArg);
    }
});
block.end();
EmitUtils.wrap_throwable(block, INVOCATION_TARGET_EXCEPTION);
e.mark(illegalArg);
e.throw_exception(ILLEGAL_ARGUMENT_EXCEPTION, "Cannot find matching method/constructor");
}

```

```

private static class GetIndexCallback implements ObjectSwitchCallback {

```

```

    private CodeEmitter e;
    private Map indexes = new HashMap();

    public GetIndexCallback(CodeEmitter e, List methods) {
        this.e = e;
        int index = 0;
        for (Iterator it = methods.iterator(); it.hasNext();) {
            indexes.put(it.next(), new Integer(index++));
        }
    }

```

```

    public void processCase(Object key, Label end) {
        e.push(((Integer)indexes.get(key)).intValue());
        e.return_value();
    }

```

```

    public void processDefault() {
        e.push(-1);
        e.return_value();
    }
}

```

```

private static int[] getIntRange(int length) {
    int[] range = new int[length];
    for (int i = 0; i < length; i++) {
        range[i] = i;
    }
    return range;
}
}

```

```

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 */
package net.sf.cglib.beans;

```

```

import java.lang.reflect.Constructor;
import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;

class BulkBeanEmitter extends ClassEmitter {
    private static final Signature GET_PROPERTY_VALUES =
        TypeUtils.parseSignature("void getPropertyValues(Object, Object[])");
    private static final Signature SET_PROPERTY_VALUES =
        TypeUtils.parseSignature("void setPropertyValues(Object, Object[])");
    private static final Signature CSTRUCT_EXCEPTION =
        TypeUtils.parseConstructor("Throwable, int");
    private static final Type BULK_BEAN =
        TypeUtils.parseType("net.sf.cglib.beans.BulkBean");
    private static final Type BULK_BEAN_EXCEPTION =
        TypeUtils.parseType("net.sf.cglib.beans.BulkBeanException");

    public BulkBeanEmitter(ClassVisitor v,
        String className,
        Class target,
        String[] getterNames,
        String[] setterNames,
        Class[] types) {
        super(v);

        Method[] getters = new Method[getterNames.length];
        Method[] setters = new Method[setterNames.length];
        validate(target, getterNames, setterNames, types, getters, setters);
    }

```

```

begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, BULK_BEAN, null,
Constants.SOURCE_FILE);
    EmitUtils.null_constructor(this);
    generateGet(target, getters);
    generateSet(target, setters);
    end_class();
}

private void generateGet(final Class target, final Method[] getters) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, GET_PROPERTY_VALUES, null);
    if (getters.length >= 0) {
        e.load_arg(0);
        e.checkcast(Type.getType(target));
        Local bean = e.make_local();
        e.store_local(bean);
        for (int i = 0; i < getters.length; i++) {
            if (getters[i] != null) {
                MethodInfo getter = ReflectUtils.getMethodInfo(getters[i]);
                e.load_arg(1);
                e.push(i);
                e.load_local(bean);
                e.invoke(getter);
                e.box(getter.getSignature().getReturnType());
                e.aastore();
            }
        }
    }
    e.return_value();
    e.end_method();
}

private void generateSet(final Class target, final Method[] setters) {
    // setPropertyValues
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SET_PROPERTY_VALUES, null);
    if (setters.length > 0) {
        Local index = e.make_local(Type.INT_TYPE);
        e.push(0);
        e.store_local(index);
        e.load_arg(0);
        e.checkcast(Type.getType(target));
        e.load_arg(1);
        Block handler = e.begin_block();
        int lastIndex = 0;
        for (int i = 0; i < setters.length; i++) {
            if (setters[i] != null) {
                MethodInfo setter = ReflectUtils.getMethodInfo(setters[i]);
                int diff = i - lastIndex;
            }
        }
    }
}

```

```

        if (diff > 0) {
            e.iinc(index, diff);
            lastIndex = i;
        }
        e.dup2();
        e.aaload(i);
        e.unbox(setter.getSignature().getArgumentTypes()[0]);
        e.invoke(setter);
    }
}
handler.end();
e.return_value();
e.catch_exception(handler, Constants.TYPE_THROWABLE);
e.new_instance(BULK_BEAN_EXCEPTION);
e.dup_x1();
e.swap();
e.load_local(index);
e.invoke_constructor(BULK_BEAN_EXCEPTION, CSTRUCT_EXCEPTION);
e.athrow();
} else {
    e.return_value();
}
e.end_method();
}

private static void validate(Class target,
    String[] getters,
    String[] setters,
    Class[] types,
    Method[] getters_out,
    Method[] setters_out) {
    int i = -1;
    if (setters.length != types.length || getters.length != types.length) {
        throw new BulkBeanException("accessor array length must be equal type array length", i);
    }
    try {
        for (i = 0; i < types.length; i++) {
            if (getters[i] != null) {
                Method method = ReflectUtils.findDeclaredMethod(target, getters[i], null);
                if (method.getReturnType() != types[i]) {
                    throw new BulkBeanException("Specified type " + types[i] +
                        " does not match declared type " + method.getReturnType(), i);
                }
            }
            if (Modifier.isPrivate(method.getModifiers())) {
                throw new BulkBeanException("Property is private", i);
            }
            getters_out[i] = method;
        }
    }
}

```

```

        if (setters[i] != null) {
            Method method = ReflectUtils.findDeclaredMethod(target, setters[i], new Class[]{ types[i] });
            if (Modifier.isPrivate(method.getModifiers())){
                throw new BulkBeanException("Property is private", i);
            }
            setters_out[i] = method;
        }
    }
} catch (NoSuchMethodException e) {
    throw new BulkBeanException("Cannot find specified property", i);
}
}
}
}
/*
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 */
package net.sf.cglib.beans;

import java.beans.*;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

class BeanMapEmitter extends ClassEmitter {
    private static final Type BEAN_MAP =
        TypeUtils.parseType("net.sf.cglib.beans.BeanMap");
    private static final Type FIXED_KEY_SET =
        TypeUtils.parseType("net.sf.cglib.beans.FixedKeySet");
    private static final Signature CSTRUCT_OBJECT =
        TypeUtils.parseConstructor("Object");
    private static final Signature CSTRUCT_STRING_ARRAY =
        TypeUtils.parseConstructor("String[]");
    private static final Signature BEAN_MAP_GET =
        TypeUtils.parseSignature("Object get(Object, Object)");

```



```

private static final Signature BEAN_MAP_PUT =
    TypeUtils.parseSignature("Object put(Object, Object, Object)");
private static final Signature KEY_SET =
    TypeUtils.parseSignature("java.util.Set keySet()");
private static final Signature NEW_INSTANCE =
    new Signature("newInstance", BEAN_MAP, new Type[]{ Constants.TYPE_OBJECT });
private static final Signature GET_PROPERTY_TYPE =
    TypeUtils.parseSignature("Class getPropertyType(String)");

public BeanMapEmitter(ClassVisitor v, String className, Class type, int require) {
    super(v);

    begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, BEAN_MAP, null,
Constants.SOURCE_FILE);
    EmitUtils.null_constructor(this);
    EmitUtils.factory_method(this, NEW_INSTANCE);
    generateConstructor();

    Map getters = makePropertyMap(ReflectUtils.getBeanGetters(type));
    Map setters = makePropertyMap(ReflectUtils.getBeanSetters(type));
    Map allProps = new HashMap();
    allProps.putAll(getters);
    allProps.putAll(setters);

    if (require != 0) {
        for (Iterator it = allProps.keySet().iterator(); it.hasNext();) {
            String name = (String)it.next();
            if (((require & BeanMap.REQUIRE_GETTER) != 0) && !getters.containsKey(name)) ||
                (((require & BeanMap.REQUIRE_SETTER) != 0) && !setters.containsKey(name))) {
                it.remove();
                getters.remove(name);
                setters.remove(name);
            }
        }
    }
    generateGet(type, getters);
    generatePut(type, setters);

    String[] allNames = getNames(allProps);
    generateKeySet(allNames);
    generateGetPropertyType(allProps, allNames);
    end_class();
}

private Map makePropertyMap(PropertyDescriptor[] props) {
    Map names = new HashMap();
    for (int i = 0; i < props.length; i++) {
        names.put(((PropertyDescriptor)props[i]).getName(), props[i]);
    }
}

```

```

    }
    return names;
}

private String[] getNames(Map propertyMap) {
    return (String[])propertyMap.keySet().toArray(new String[propertyMap.size()]);
}

private void generateConstructor() {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT, null);
    e.load_this();
    e.load_arg(0);
    e.super_invoke_constructor(CSTRUCT_OBJECT);
    e.return_value();
    e.end_method();
}

private void generateGet(Class type, final Map getters) {
    final CodeEmitter e = begin_method(Constants.ACC_PUBLIC, BEAN_MAP_GET, null);
    e.load_arg(0);
    e.checkcast(Type.getType(type));
    e.load_arg(1);
    e.checkcast(Constants.TYPE_STRING);
    EmitUtils.string_switch(e, getNames(getters), Constants.SWITCH_STYLE_HASH, new
ObjectSwitchCallback() {
        public void processCase(Object key, Label end) {
            PropertyDescriptor pd = (PropertyDescriptor)getters.get(key);
            MethodInfo method = ReflectUtils.getMethodInfo(pd.getReadMethod());
            e.invoke(method);
            e.box(method.getSignature().getReturnType());
            e.return_value();
        }
        public void processDefault() {
            e.aconst_null();
            e.return_value();
        }
    });
    e.end_method();
}

private void generatePut(Class type, final Map setters) {
    final CodeEmitter e = begin_method(Constants.ACC_PUBLIC, BEAN_MAP_PUT, null);
    e.load_arg(0);
    e.checkcast(Type.getType(type));
    e.load_arg(1);
    e.checkcast(Constants.TYPE_STRING);
    EmitUtils.string_switch(e, getNames(setters), Constants.SWITCH_STYLE_HASH, new
ObjectSwitchCallback() {

```

```

public void processCase(Object key, Label end) {
    PropertyDescriptor pd = (PropertyDescriptor)setters.get(key);
    if (pd.getReadMethod() == null) {
        e.aconst_null();
    } else {
        MethodInfo read = ReflectUtils.getMethodInfo(pd.getReadMethod());
        e.dup();
        e.invoke(read);
        e.box(read.getSignature().getReturnType());
    }
    e.swap(); // move old value behind bean
    e.load_arg(2); // new value
    MethodInfo write = ReflectUtils.getMethodInfo(pd.getWriteMethod());
    e.unbox(write.getSignature().getArgumentTypes()[0]);
    e.invoke(write);
    e.return_value();
}
public void processDefault() {
    // fall-through
}
});
e.aconst_null();
e.return_value();
e.end_method();
}

private void generateKeySet(String[] allNames) {
    // static initializer
    declare_field(Constants.ACC_STATIC | Constants.ACC_PRIVATE, "keys", FIXED_KEY_SET, null);

    CodeEmitter e = begin_static();
    e.new_instance(FIXED_KEY_SET);
    e.dup();
    EmitUtils.push_array(e, allNames);
    e.invoke_constructor(FIXED_KEY_SET, CSTRUCT_STRING_ARRAY);
    e.putfield("keys");
    e.return_value();
    e.end_method();

    // keySet
    e = begin_method(Constants.ACC_PUBLIC, KEY_SET, null);
    e.load_this();
    e.getfield("keys");
    e.return_value();
    e.end_method();
}

private void generateGetPropertyType(final Map allProps, String[] allNames) {

```

```

final CodeEmitter e = begin_method(Constants.ACC_PUBLIC, GET_PROPERTY_TYPE, null);
e.load_arg(0);
EmitUtils.string_switch(e, allNames, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
    public void processCase(Object key, Label end) {
        PropertyDescriptor pd = (PropertyDescriptor)allProps.get(key);
        EmitUtils.load_class(e, Type.getType(pd.getPropertyType()));
        e.return_value();
    }
    public void processDefault() {
        e.aconst_null();
        e.return_value();
    }
});
e.end_method();
}
}
/*
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 */
package net.sf.cglib.transform;

import net.sf.cglib.core.ClassEmitter;

abstract public class ClassEmitterTransformer extends ClassEmitter implements ClassTransformer {
}
/*
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```

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\* limitations under the License.  
\*/

```
package net.sf.cglib.core;
```

```
import java.io.*;
```

```
import java.util.*;
```

```
import org.objectweb.asm.*;
```

```
/**
```

```
 * @author Juozas Baliuka, Chris Nokleberg
```

```
 */
```

```
public class ClassEmitter extends ClassAdapter {
```

```
    private ClassInfo classInfo;
```

```
    private Map fieldInfo;
```

```
    private static int hookCounter;
```

```
    private MethodVisitor rawStaticInit;
```

```
    private CodeEmitter staticInit;
```

```
    private CodeEmitter staticHook;
```

```
    private Signature staticHookSig;
```

```
    public ClassEmitter(ClassVisitor cv) {
```

```
        super(null);
```

```
        setTarget(cv);
```

```
    }
```

```
    public ClassEmitter() {
```

```
        super(null);
```

```
    }
```

```
    public void setTarget(ClassVisitor cv) {
```

```
        this.cv = cv;
```

```
        fieldInfo = new HashMap();
```

```
        // just to be safe
```

```
        staticInit = staticHook = null;
```

```
        staticHookSig = null;
```

```
    }
```

```
    synchronized private static int getNextHook() {
```

```
        return ++hookCounter;
```

```
    }
```

```
    public ClassInfo getClassInfo() {
```

```
        return classInfo;
```

```
    }
```

```

    public void begin_class(int version, final int access, String className, final Type superType, final Type[]
interfaces, String source) {
        final Type classType = Type.getType("L" + className.replace('.', '/') + ";");
        classInfo = new ClassInfo() {
            public Type getType() {
                return classType;
            }
            public Type getSuperType() {
                return (superType != null) ? superType : Constants.TYPE_OBJECT;
            }
            public Type[] getInterfaces() {
                return interfaces;
            }
            public int getModifiers() {
                return access;
            }
        };
        cv.visit(version,
            access,
            classInfo.getType().getInternalName(),
            null,
            classInfo.getSuperType().getInternalName(),
            TypeUtils.toInternalNames(interfaces));
        if (source != null)
            cv.visitSource(source, null);
        init();
    }

    public CodeEmitter getStaticHook() {
        if (TypeUtils.isInterface(getAccess())) {
            throw new IllegalStateException("static hook is invalid for this class");
        }
        if (staticHook == null) {
            staticHookSig = new Signature("CGLIB$STATICHOOK" + getNextHook(), "()V");
            staticHook = begin_method(Constants.ACC_STATIC,
                staticHookSig,
                null);
            if (staticInit != null) {
                staticInit.invoke_static_this(staticHookSig);
            }
        }
        return staticHook;
    }

    protected void init() {
    }

```

```

public int getAccess() {
    return classInfo.getModifiers();
}

public Type getClassType() {
    return classInfo.getType();
}

public Type getSuperType() {
    return classInfo.getSuperType();
}

public void end_class() {
    if (staticHook != null && staticInit == null) {
        // force creation of static init
        begin_static();
    }
    if (staticInit != null) {
        staticHook.return_value();
        staticHook.end_method();
        rawStaticInit.visitInsn(Constants.RETURN);
        rawStaticInit.visitMaxs(0, 0);
        staticInit = staticHook = null;
        staticHookSig = null;
    }
    cv.visitEnd();
}

public CodeEmitter begin_method(int access, Signature sig, Type[] exceptions) {
    if (classInfo == null)
        throw new IllegalStateException("classInfo is null! " + this);
    MethodVisitor v = cv.visitMethod(access,
        sig.getName(),
        sig.getDescriptor(),
        null,
        TypeUtils.toInternalNames(exceptions));
    if (sig.equals(Constants.SIG_STATIC) && !TypeUtils.isInterface(getAccess())) {
        rawStaticInit = v;
        MethodVisitor wrapped = new MethodAdapter(v) {
            public void visitMaxs(int maxStack, int maxLocals) {
                // ignore
            }
            public void visitInsn(int insn) {
                if (insn != Constants.RETURN) {
                    super.visitInsn(insn);
                }
            }
        };
    }
};

```

```

staticInit = new CodeEmitter(this, wrapped, access, sig, exceptions);
if (staticHook == null) {
    // force static hook creation
    getStaticHook();
} else {
    staticInit.invoke_static_this(staticHookSig);
}
return staticInit;
} else if (sig.equals(staticHookSig)) {
    return new CodeEmitter(this, v, access, sig, exceptions) {
        public boolean isStaticHook() {
            return true;
        }
    };
} else {
    return new CodeEmitter(this, v, access, sig, exceptions);
}
}

public CodeEmitter begin_static() {
    return begin_method(Constants.ACC_STATIC, Constants.SIG_STATIC, null);
}

public void declare_field(int access, String name, Type type, Object value) {
    FieldInfo existing = (FieldInfo)fieldInfo.get(name);
    FieldInfo info = new FieldInfo(access, name, type, value);
    if (existing != null) {
        if (!info.equals(existing)) {
            throw new IllegalArgumentException("Field \"" + name + "\" has been declared differently");
        }
    } else {
        fieldInfo.put(name, info);
        cv.visitField(access, name, type.getDescriptor(), null, value);
    }
}

// TODO: make public?
boolean isFieldDeclared(String name) {
    return fieldInfo.get(name) != null;
}

FieldInfo getFieldInfo(String name) {
    FieldInfo field = (FieldInfo)fieldInfo.get(name);
    if (field == null) {
        throw new IllegalArgumentException("Field " + name + " is not declared in " +
getClassType().getClassName());
    }
    return field;
}

```



```

}

static class FieldInfo {
    int access;
    String name;
    Type type;
    Object value;

    public FieldInfo(int access, String name, Type type, Object value) {
        this.access = access;
        this.name = name;
        this.type = type;
        this.value = value;
    }

    public boolean equals(Object o) {
        if (o == null)
            return false;
        if (!(o instanceof FieldInfo))
            return false;
        FieldInfo other = (FieldInfo)o;
        if (access != other.access ||
            !name.equals(other.name) ||
            !type.equals(other.type)) {
            return false;
        }
        if ((value == null) ^ (other.value == null))
            return false;
        if (value != null && !value.equals(other.value))
            return false;
        return true;
    }

    public int hashCode() {
        return access ^ name.hashCode() ^ type.hashCode() ^ ((value == null) ? 0 : value.hashCode());
    }
}

public void visit(int version,
                 int access,
                 String name,
                 String signature,
                 String superName,
                 String[] interfaces) {
    begin_class(version,
               access,
               name.replace('/', '.'),
               TypeUtils.fromInternalName(superName),

```

```

        TypeUtils.fromInternalNames(interfaces),
        null); // TODO
    }

    public void visitEnd() {
        end_class();
    }

    public FieldVisitor visitField(int access,
        String name,
        String desc,
        String signature,
        Object value) {
        declare_field(access, name, Type.getType(desc), value);
        return null; // TODO
    }

    public MethodVisitor visitMethod(int access,
        String name,
        String desc,
        String signature,
        String[] exceptions) {
        return begin_method(access,
            new Signature(name, desc),
            TypeUtils.fromInternalNames(exceptions));
    }
}
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 * limitations under the License.
 */
package net.sf.cglib.core;

import java.util.Set;

/**
 * Customize the generated class name for {@link AbstractClassGenerator}-based utilities.

```

```

*/
public interface NamingPolicy {
    /**
     * Choose a name for a generated class.
     * @param prefix a dotted-name chosen by the generating class (possibly to put the generated class in a particular
package)
     * @param source the fully-qualified class name of the generating class (for example "net.sf.cglib.Enhancer")
     * @param key A key object representing the state of the parameters; for caching to work properly, equal keys
should result
     * in the same generated class name. The default policy incorporates <code>key.hashCode()</code> into the class
name.
     * @param names a predicate that returns true if the given classname has already been used in the same
ClassLoader.
     * @return the fully-qualified class name
     */
    String getClassName(String prefix, String source, Object key, Predicate names);

    /**
     * The <code>NamingPolicy</code> in use does not currently, but may
     * in the future, affect the caching of classes generated by { @link
     * AbstractClassGenerator}, so this is a reminder that you should
     * correctly implement <code>equals</code> and <code>hashCode</code>
     * to avoid generating too many classes.
     */
    boolean equals(Object o);
}
/*
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 * limitations under the License.
 */
package net.sf.cglib.core;

import java.io.*;
import java.util.*;
import org.objectweb.asm.*;

/**

```

```

* @author Juozas Baliuka, Chris Nokleberg
*/
public class CodeEmitter extends LocalVariablesSorter {
    private static final Signature BOOLEAN_VALUE =
        TypeUtils.parseSignature("boolean booleanValue()");
    private static final Signature CHAR_VALUE =
        TypeUtils.parseSignature("char charValue()");
    private static final Signature LONG_VALUE =
        TypeUtils.parseSignature("long longValue()");
    private static final Signature DOUBLE_VALUE =
        TypeUtils.parseSignature("double doubleValue()");
    private static final Signature FLOAT_VALUE =
        TypeUtils.parseSignature("float floatValue()");
    private static final Signature INT_VALUE =
        TypeUtils.parseSignature("int intValue()");
    private static final Signature CSTRUCT_NULL =
        TypeUtils.parseConstructor("");
    private static final Signature CSTRUCT_STRING =
        TypeUtils.parseConstructor("String");

    public static final int ADD = Constants.IADD;
    public static final int MUL = Constants.IMUL;
    public static final int XOR = Constants.IXOR;
    public static final int USHR = Constants.IUSHR;
    public static final int SUB = Constants.ISUB;
    public static final int DIV = Constants.IDIV;
    public static final int NEG = Constants.INEG;
    public static final int REM = Constants.IREM;
    public static final int AND = Constants.IAND;
    public static final int OR = Constants.IOR;

    public static final int GT = Constants.IFGT;
    public static final int LT = Constants.IFLT;
    public static final int GE = Constants.IFGE;
    public static final int LE = Constants.IFLE;
    public static final int NE = Constants.IFNE;
    public static final int EQ = Constants.IFEQ;

    private ClassEmitter ce;
    private State state;

    private static class State
    extends MethodInfo
    {
        ClassInfo classInfo;
        int access;
        Signature sig;
        Type[] argumentTypes;
    }

```

```

int localOffset;
Type[] exceptionTypes;

State(ClassInfo classInfo, int access, Signature sig, Type[] exceptionTypes) {
    this.classInfo = classInfo;
    this.access = access;
    this.sig = sig;
    this.exceptionTypes = exceptionTypes;
    localOffset = TypeUtils.isStatic(access) ? 0 : 1;
    argumentTypes = sig.getArgumentTypes();
}

public ClassInfo getClassInfo() {
    return classInfo;
}

public int getModifiers() {
    return access;
}

public Signature getSignature() {
    return sig;
}

public Type[] getExceptionTypes() {
    return exceptionTypes;
}

public Attribute getAttribute() {
    // TODO
    return null;
}
}

CodeEmitter(ClassEmitter ce, MethodVisitor mv, int access, Signature sig, Type[] exceptionTypes) {
    super(access, sig.getDescriptor(), mv);
    this.ce = ce;
    state = new State(ce.getClassInfo(), access, sig, exceptionTypes);
}

public CodeEmitter(CodeEmitter wrap) {
    super(wrap);
    this.ce = wrap.ce;
    this.state = wrap.state;
}

public boolean isStaticHook() {
    return false;
}

```

```

}

public Signature getSignature() {
    return state.sig;
}

public Type getReturnType() {
    return state.sig.getReturnType();
}

public MethodInfo getMethodInfo() {
    return state;
}

public ClassEmitter getClassEmitter() {
    return ce;
}

public void end_method() {
    visitMaxs(0, 0);
}

public Block begin_block() {
    return new Block(this);
}

public void catch_exception(Block block, Type exception) {
    if (block.getEnd() == null) {
        throw new IllegalStateException("end of block is unset");
    }
    mv.visitTryCatchBlock(block.getStart(),
        block.getEnd(),
        mark(),
        exception.getInternalName());
}

public void goTo(Label label) { mv.visitJumpInsn(Constants.GOTO, label); }
public void ifnull(Label label) { mv.visitJumpInsn(Constants.IFNULL, label); }
public void ifnonnull(Label label) { mv.visitJumpInsn(Constants.IFNONNULL, label); }

public void if_jump(int mode, Label label) {
    mv.visitJumpInsn(mode, label);
}

public void if_icmp(int mode, Label label) {
    if_cmp(Type.INT_TYPE, mode, label);
}

```

```

public void if_cmp(Type type, int mode, Label label) {
    int intOp = -1;
    int jumpmode = mode;
    switch (mode) {
    case GE: jumpmode = LT; break;
    case LE: jumpmode = GT; break;
    }
    switch (type.getSort()) {
    case Type.LONG:
        mv.visitInsn(Constants.LCMP);
        break;
    case Type.DOUBLE:
        mv.visitInsn(Constants.DCMPG);
        break;
    case Type.FLOAT:
        mv.visitInsn(Constants.FCMPG);
        break;
    case Type.ARRAY:
    case Type.OBJECT:
        switch (mode) {
        case EQ:
            mv.visitJumpInsn(Constants.IF_ACMPEQ, label);
            return;
        case NE:
            mv.visitJumpInsn(Constants.IF_ACMUNE, label);
            return;
        }
        throw new IllegalArgumentException("Bad comparison for type " + type);
    default:
        switch (mode) {
        case EQ: intOp = Constants.IF_ICMPEQ; break;
        case NE: intOp = Constants.IF_ICMUNE; break;
        case GE: swap(); /* fall through */
        case LT: intOp = Constants.IF_ICMPLT; break;
        case LE: swap(); /* fall through */
        case GT: intOp = Constants.IF_ICMPGT; break;
        }
        mv.visitJumpInsn(intOp, label);
        return;
    }
    if_jump(jumpmode, label);
}

public void pop() { mv.visitInsn(Constants.POP); }
public void pop2() { mv.visitInsn(Constants.POP2); }
public void dup() { mv.visitInsn(Constants.DUP); }
public void dup2() { mv.visitInsn(Constants.DUP2); }
public void dup_x1() { mv.visitInsn(Constants.DUP_X1); }

```

```

public void dup_x2() { mv.visitInsn(Constants.DUP_X2); }
public void dup2_x1() { mv.visitInsn(Constants.DUP2_X1); }
public void dup2_x2() { mv.visitInsn(Constants.DUP2_X2); }
public void swap() { mv.visitInsn(Constants.SWAP); }
public void aconst_null() { mv.visitInsn(Constants.ACONST_NULL); }

public void swap(Type prev, Type type) {
    if (type.getSize() == 1) {
        if (prev.getSize() == 1) {
            swap(); // same as dup_x1(), pop();
        } else {
            dup_x2();
            pop();
        }
    } else {
        if (prev.getSize() == 1) {
            dup2_x1();
            pop2();
        } else {
            dup2_x2();
            pop2();
        }
    }
}

public void monitorenter() { mv.visitInsn(Constants.MONITORENTER); }
public void monitorexit() { mv.visitInsn(Constants.MONITOREXIT); }

public void math(int op, Type type) { mv.visitInsn(type.getOpcode(op)); }

public void array_load(Type type) { mv.visitInsn(type.getOpcode(Constants.IALOAD)); }
public void array_store(Type type) { mv.visitInsn(type.getOpcode(Constants.IASTORE)); }

/**
 * Casts from one primitive numeric type to another
 */
public void cast_numeric(Type from, Type to) {
    if (from != to) {
        if (from == Type.DOUBLE_TYPE) {
            if (to == Type.FLOAT_TYPE) {
                mv.visitInsn(Constants.D2F);
            } else if (to == Type.LONG_TYPE) {
                mv.visitInsn(Constants.D2L);
            } else {
                mv.visitInsn(Constants.D2I);
                cast_numeric(Type.INT_TYPE, to);
            }
        } else if (from == Type.FLOAT_TYPE) {

```



```

    if (to == Type.DOUBLE_TYPE) {
        mv.visitInsn(Constants.F2D);
    } else if (to == Type.LONG_TYPE) {
        mv.visitInsn(Constants.F2L);
    } else {
        mv.visitInsn(Constants.F2I);
        cast_numeric(Type.INT_TYPE, to);
    }
} else if (from == Type.LONG_TYPE) {
    if (to == Type.DOUBLE_TYPE) {
        mv.visitInsn(Constants.L2D);
    } else if (to == Type.FLOAT_TYPE) {
        mv.visitInsn(Constants.L2F);
    } else {
        mv.visitInsn(Constants.L2I);
        cast_numeric(Type.INT_TYPE, to);
    }
} else {
    if (to == Type.BYTE_TYPE) {
        mv.visitInsn(Constants.I2B);
    } else if (to == Type.CHAR_TYPE) {
        mv.visitInsn(Constants.I2C);
    } else if (to == Type.DOUBLE_TYPE) {
        mv.visitInsn(Constants.I2D);
    } else if (to == Type.FLOAT_TYPE) {
        mv.visitInsn(Constants.I2F);
    } else if (to == Type.LONG_TYPE) {
        mv.visitInsn(Constants.I2L);
    } else if (to == Type.SHORT_TYPE) {
        mv.visitInsn(Constants.I2S);
    }
}
}
}
}

```

```

public void push(int i) {
    if (i < -1) {
        mv.visitLdcInsn(new Integer(i));
    } else if (i <= 5) {
        mv.visitInsn(TypeUtils.ICONST(i));
    } else if (i <= Byte.MAX_VALUE) {
        mv.visitIntInsn(Constants.BIPUSH, i);
    } else if (i <= Short.MAX_VALUE) {
        mv.visitIntInsn(Constants.SIPUSH, i);
    } else {
        mv.visitLdcInsn(new Integer(i));
    }
}
}

```

```

public void push(long value) {
    if (value == 0L || value == 1L) {
        mv.visitInsn(TypeUtils.LCONST(value));
    } else {
        mv.visitLdcInsn(new Long(value));
    }
}

public void push(float value) {
    if (value == 0f || value == 1f || value == 2f) {
        mv.visitInsn(TypeUtils.FCONST(value));
    } else {
        mv.visitLdcInsn(new Float(value));
    }
}

public void push(double value) {
    if (value == 0d || value == 1d) {
        mv.visitInsn(TypeUtils.DCONST(value));
    } else {
        mv.visitLdcInsn(new Double(value));
    }
}

public void push(String value) {
    mv.visitLdcInsn(value);
}

public void newarray() {
    newarray(Constants.TYPE_OBJECT);
}

public void newarray(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        mv.visitIntInsn(Constants.NEWARRAY, TypeUtils.NEWARRAY(type));
    } else {
        emit_type(Constants.ANEWARRAY, type);
    }
}

public void arraylength() {
    mv.visitInsn(Constants.ARRAYLENGTH);
}

public void load_this() {
    if (TypeUtils.isStatic(state.access)) {
        throw new IllegalStateException("no 'this' pointer within static method");
    }
}

```

```

    mv.visitVarInsn(Constants.ALOAD, 0);
}

/**
 * Pushes all of the arguments of the current method onto the stack.
 */
public void load_args() {
    load_args(0, state.argumentTypes.length);
}

/**
 * Pushes the specified argument of the current method onto the stack.
 * @param index the zero-based index into the argument list
 */
public void load_arg(int index) {
    load_local(state.argumentTypes[index],
               state.localOffset + skipArgs(index));
}

// zero-based (see load_this)
public void load_args(int fromArg, int count) {
    int pos = state.localOffset + skipArgs(fromArg);
    for (int i = 0; i < count; i++) {
        Type t = state.argumentTypes[fromArg + i];
        load_local(t, pos);
        pos += t.getSize();
    }
}

private int skipArgs(int numArgs) {
    int amount = 0;
    for (int i = 0; i < numArgs; i++) {
        amount += state.argumentTypes[i].getSize();
    }
    return amount;
}

private void load_local(Type t, int pos) {
    // TODO: make t == null ok?
    mv.visitVarInsn(t.getOpcode(Constants.ILOAD), pos);
}

private void store_local(Type t, int pos) {
    // TODO: make t == null ok?
    mv.visitVarInsn(t.getOpcode(Constants.ISTORE), pos);
}

public void iinc(Local local, int amount) {

```

```

    mv.visitInsn(local.getIndex(), amount);
}

public void store_local(Local local) {
    store_local(local.getType(), local.getIndex());
}

public void load_local(Local local) {
    load_local(local.getType(), local.getIndex());
}

public void return_value() {
    mv.visitInsn(state.sig.getReturnType().getOpcode(Constants.IRETURN));
}

public void getfield(String name) {
    ClassEmitter.FieldInfo info = ce.getFieldInfo(name);
    int opcode = TypeUtils.isStatic(info.access) ? Constants.GETSTATIC : Constants.GETFIELD;
    emit_field(opcode, ce.getClassType(), name, info.type);
}

public void putfield(String name) {
    ClassEmitter.FieldInfo info = ce.getFieldInfo(name);
    int opcode = TypeUtils.isStatic(info.access) ? Constants.PUTSTATIC : Constants.PUTFIELD;
    emit_field(opcode, ce.getClassType(), name, info.type);
}

public void super_getfield(String name, Type type) {
    emit_field(Constants.GETFIELD, ce.getSuperType(), name, type);
}

public void super_putfield(String name, Type type) {
    emit_field(Constants.PUTFIELD, ce.getSuperType(), name, type);
}

public void super_getstatic(String name, Type type) {
    emit_field(Constants.GETSTATIC, ce.getSuperType(), name, type);
}

public void super_putstatic(String name, Type type) {
    emit_field(Constants.PUTSTATIC, ce.getSuperType(), name, type);
}

public void getfield(Type owner, String name, Type type) {
    emit_field(Constants.GETFIELD, owner, name, type);
}

public void putfield(Type owner, String name, Type type) {

```

```

    emit_field(Constants.PUTFIELD, owner, name, type);
}

public void getstatic(Type owner, String name, Type type) {
    emit_field(Constants.GETSTATIC, owner, name, type);
}

public void putstatic(Type owner, String name, Type type) {
    emit_field(Constants.PUTSTATIC, owner, name, type);
}

// package-protected for EmitUtils, try to fix
void emit_field(int opcode, Type ctype, String name, Type ftype) {
    mv.visitFieldInsn(opcode,
        ctype.getInternalName(),
        name,
        ftype.getDescriptor());
}

public void super_invoke() {
    super_invoke(state.sig);
}

public void super_invoke(Signature sig) {
    emit_invoke(Constants.INVOKESPECIAL, ce.getSuperType(), sig);
}

public void invoke_constructor(Type type) {
    invoke_constructor(type, CSTRUCT_NULL);
}

public void super_invoke_constructor() {
    invoke_constructor(ce.getSuperType());
}

public void invoke_constructor_this() {
    invoke_constructor(ce.getClassType());
}

private void emit_invoke(int opcode, Type type, Signature sig) {
    if (sig.getName().equals(Constants.CONSTRUCTOR_NAME) &&
        ((opcode == Constants.INVOKEVIRTUAL) ||
         (opcode == Constants.INVOKESTATIC))) {
        // TODO: error
    }
    mv.visitMethodInsn(opcode,
        type.getInternalName(),
        sig.getName(),

```

```

        sig.getDescriptor());
    }

    public void invoke_interface(Type owner, Signature sig) {
        emit_invoke(Constants.INVOKEINTERFACE, owner, sig);
    }

    public void invoke_virtual(Type owner, Signature sig) {
        emit_invoke(Constants.INVOKEVIRTUAL, owner, sig);
    }

    public void invoke_static(Type owner, Signature sig) {
        emit_invoke(Constants.INVOKESTATIC, owner, sig);
    }

    public void invoke_virtual_this(Signature sig) {
        invoke_virtual(ce.getClassType(), sig);
    }

    public void invoke_static_this(Signature sig) {
        invoke_static(ce.getClassType(), sig);
    }

    public void invoke_constructor(Type type, Signature sig) {
        emit_invoke(Constants.INVOKESPECIAL, type, sig);
    }

    public void invoke_constructor_this(Signature sig) {
        invoke_constructor(ce.getClassType(), sig);
    }

    public void super_invoke_constructor(Signature sig) {
        invoke_constructor(ce.getSuperType(), sig);
    }

    public void new_instance_this() {
        new_instance(ce.getClassType());
    }

    public void new_instance(Type type) {
        emit_type(Constants.NEW, type);
    }

    private void emit_type(int opcode, Type type) {
        String desc;
        if (TypeUtils.isArray(type)) {
            desc = type.getDescriptor();
        } else {

```

```

        desc = type.getInternalName();
    }
    mv.visitTypeInsn(opcode, desc);
}

public void aaload(int index) {
    push(index);
    aaload();
}

public void aaload() { mv.visitInsn(Constants.AALOAD); }
public void aastore() { mv.visitInsn(Constants.AASTORE); }
public void athrow() { mv.visitInsn(Constants.ATHROW); }

public Label make_label() {
    return new Label();
}

public Local make_local() {
    return make_local(Constants.TYPE_OBJECT);
}

public Local make_local(Type type) {
    return new Local(newLocal(type.getSize()), type);
}

public void checkcast_this() {
    checkcast(ce.getClassType());
}

public void checkcast(Type type) {
    if (!type.equals(Constants.TYPE_OBJECT)) {
        emit_type(Constants.CHECKCAST, type);
    }
}

public void instance_of(Type type) {
    emit_type(Constants.INSTANCEOF, type);
}

public void instance_of_this() {
    instance_of(ce.getClassType());
}

public void process_switch(int[] keys, ProcessSwitchCallback callback) {
    float density;
    if (keys.length == 0) {
        density = 0;
    }
}

```

```

    } else {
        density = (float)keys.length / (keys[keys.length - 1] - keys[0] + 1);
    }
    process_switch(keys, callback, density >= 0.5f);
}

public void process_switch(int[] keys, ProcessSwitchCallback callback, boolean useTable) {
    if (!isSorted(keys))
        throw new IllegalArgumentException("keys to switch must be sorted ascending");
    Label def = make_label();
    Label end = make_label();

    try {
        if (keys.length > 0) {
            int len = keys.length;
            int min = keys[0];
            int max = keys[len - 1];
            int range = max - min + 1;

            if (useTable) {
                Label[] labels = new Label[range];
                Arrays.fill(labels, def);
                for (int i = 0; i < len; i++) {
                    labels[keys[i] - min] = make_label();
                }
                mv.visitTableSwitchInsn(min, max, def, labels);
                for (int i = 0; i < range; i++) {
                    Label label = labels[i];
                    if (label != def) {
                        mark(label);
                        callback.processCase(i + min, end);
                    }
                }
            } else {
                Label[] labels = new Label[len];
                for (int i = 0; i < len; i++) {
                    labels[i] = make_label();
                }
                mv.visitLookupSwitchInsn(def, keys, labels);
                for (int i = 0; i < len; i++) {
                    mark(labels[i]);
                    callback.processCase(keys[i], end);
                }
            }
        }

        mark(def);
        callback.processDefault();
    }
}

```



```

        mark(end);

    } catch (RuntimeException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (Exception e) {
        throw new CodeGenerationException(e);
    }
}

private static boolean isSorted(int[] keys) {
    for (int i = 1; i < keys.length; i++) {
        if (keys[i] < keys[i - 1])
            return false;
    }
    return true;
}

public void mark(Label label) {
    mv.visitLabel(label);
}

Label mark() {
    Label label = make_label();
    mv.visitLabel(label);
    return label;
}

public void push(boolean value) {
    push(value ? 1 : 0);
}

/**
 * Toggles the integer on the top of the stack from 1 to 0 or vice versa
 */
public void not() {
    push(1);
    math(XOR, Type.INT_TYPE);
}

public void throw_exception(Type type, String msg) {
    new_instance(type);
    dup();
    push(msg);
    invoke_constructor(type, CSTRUCT_STRING);
    athrow();
}

```

```

/**
 * If the argument is a primitive class, replaces the primitive value
 * on the top of the stack with the wrapped (Object) equivalent. For
 * example, char -> Character.
 * If the class is Void, a null is pushed onto the stack instead.
 * @param type the class indicating the current type of the top stack value
 */
public void box(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type == Type.VOID_TYPE) {
            aconst_null();
        } else {
            Type boxed = TypeUtils.getBoxedType(type);
            new_instance(boxed);
            if (type.getSize() == 2) {
                // Pp -> Ppo -> oPpo -> ooPpo -> ooPp -> o
                dup_x2();
                dup_x2();
                pop();
            } else {
                // p -> po -> oPo -> oop -> o
                dup_x1();
                swap();
            }
            invoke_constructor(boxed, new Signature(Constants.CONSTRUCTOR_NAME, Type.VOID_TYPE, new
Type[] { type }));
        }
    }
}

```

```

/**
 * If the argument is a primitive class, replaces the object
 * on the top of the stack with the unwrapped (primitive)
 * equivalent. For example, Character -> char.
 * @param type the class indicating the desired type of the top stack value
 * @return true if the value was unboxed
 */
public void unbox(Type type) {
    Type t = Constants.TYPE_NUMBER;
    Signature sig = null;
    switch (type.getSort()) {
        case Type.VOID:
            return;
        case Type.CHAR:
            t = Constants.TYPE_CHARACTER;
            sig = CHAR_VALUE;
            break;
    }
}

```

```

case Type.BOOLEAN:
    t = Constants.TYPE_BOOLEAN;
    sig = BOOLEAN_VALUE;
    break;
case Type.DOUBLE:
    sig = DOUBLE_VALUE;
    break;
case Type.FLOAT:
    sig = FLOAT_VALUE;
    break;
case Type.LONG:
    sig = LONG_VALUE;
    break;
case Type.INT:
case Type.SHORT:
case Type.BYTE:
    sig = INT_VALUE;
}

if (sig == null) {
    checkcast(type);
} else {
    checkcast(t);
    invoke_virtual(t, sig);
}
}

/**
 * Allocates and fills an Object[] array with the arguments to the
 * current method. Primitive values are inserted as their boxed
 * (Object) equivalents.
 */
public void create_arg_array() {
    /* generates:
    Object[] args = new Object[] { arg1, new Integer(arg2) };
    */

    push(state.argumentTypes.length);
    newarray();
    for (int i = 0; i < state.argumentTypes.length; i++) {
        dup();
        push(i);
        load_arg(i);
        box(state.argumentTypes[i]);
        aastore();
    }
}
}

```

```

/**
 * Pushes a zero onto the stack if the argument is a primitive class, or a null otherwise.
 */
public void zero_or_null(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        switch (type.getSort()) {
            case Type.DOUBLE:
                push(0d);
                break;
            case Type.LONG:
                push(0L);
                break;
            case Type.FLOAT:
                push(0f);
                break;
            case Type.VOID:
                aconst_null();
            default:
                push(0);
        }
    } else {
        aconst_null();
    }
}

```

```

/**
 * Unboxes the object on the top of the stack. If the object is null, the
 * unboxed primitive value becomes zero.
 */
public void unbox_or_zero(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type != Type.VOID_TYPE) {
            Label nonNull = make_label();
            Label end = make_label();
            dup();
            ifnonnull(nonNull);
            pop();
            zero_or_null(type);
            goTo(end);
            mark(nonNull);
            unbox(type);
            mark(end);
        }
    } else {
        checkcast(type);
    }
}

```

```

public void visitMaxs(int maxStack, int maxLocals) {
    if (!TypeUtils.isAbstract(state.access)) {
        mv.visitMaxs(0, 0);
    }
}

public void invoke(MethodInfo method, Type virtualType) {
    ClassInfo classInfo = method.getClassInfo();
    Type type = classInfo.getType();
    Signature sig = method.getSignature();
    if (sig.getName().equals(Constants.CONSTRUCTOR_NAME)) {
        invoke_constructor(type, sig);
    } else if (TypeUtils.isInterface(classInfo.getModifiers())) {
        invoke_interface(type, sig);
    } else if (TypeUtils.isStatic(method.getModifiers())) {
        invoke_static(type, sig);
    } else {
        invoke_virtual(virtualType, sig);
    }
}

public void invoke(MethodInfo method) {
    invoke(method, method.getClassInfo().getType());
}
}
/*
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 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
package net.sf.cglib.core;

import java.math.BigDecimal;
import java.math.BigInteger;
import java.util.*;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

```

```

public class EmitUtils {
    private static final Signature CSTRUCT_NULL =
        TypeUtils.parseConstructor("");
    private static final Signature CSTRUCT_THROWABLE =
        TypeUtils.parseConstructor("Throwable");

    private static final Signature GET_NAME =
        TypeUtils.parseSignature("String getName()");
    private static final Signature HASH_CODE =
        TypeUtils.parseSignature("int hashCode()");
    private static final Signature EQUALS =
        TypeUtils.parseSignature("boolean equals(Object)");
    private static final Signature STRING_LENGTH =
        TypeUtils.parseSignature("int length()");
    private static final Signature STRING_CHAR_AT =
        TypeUtils.parseSignature("char charAt(int)");
    private static final Signature FOR_NAME =
        TypeUtils.parseSignature("Class forName(String)");
    private static final Signature DOUBLE_TO_LONG_BITS =
        TypeUtils.parseSignature("long doubleToLongBits(double)");
    private static final Signature FLOAT_TO_INT_BITS =
        TypeUtils.parseSignature("int floatToIntBits(float)");
    private static final Signature TO_STRING =
        TypeUtils.parseSignature("String toString()");
    private static final Signature APPEND_STRING =
        TypeUtils.parseSignature("StringBuffer append(String)");
    private static final Signature APPEND_INT =
        TypeUtils.parseSignature("StringBuffer append(int)");
    private static final Signature APPEND_DOUBLE =
        TypeUtils.parseSignature("StringBuffer append(double)");
    private static final Signature APPEND_FLOAT =
        TypeUtils.parseSignature("StringBuffer append(float)");
    private static final Signature APPEND_CHAR =
        TypeUtils.parseSignature("StringBuffer append(char)");
    private static final Signature APPEND_LONG =
        TypeUtils.parseSignature("StringBuffer append(long)");
    private static final Signature APPEND_BOOLEAN =
        TypeUtils.parseSignature("StringBuffer append(boolean)");
    private static final Signature LENGTH =
        TypeUtils.parseSignature("int length()");
    private static final Signature SET_LENGTH =
        TypeUtils.parseSignature("void setLength(int)");
    private static final Signature GET_DECLARED_METHOD =
        TypeUtils.parseSignature("java.lang.reflect.Method getDeclaredMethod(String, Class[])");
}

```

```

public static final ArrayDelimiters DEFAULT_DELIMITERS = new ArrayDelimiters("{", " ", " ", " "};

private EmitUtils() {
}

public static void factory_method(ClassEmitter ce, Signature sig) {
    CodeEmitter e = ce.begin_method(Constants.ACC_PUBLIC, sig, null);
    e.new_instance_this();
    e.dup();
    e.load_args();
    e.invoke_constructor_this(TypeUtils.parseConstructor(sig.getArgumentTypes()));
    e.return_value();
    e.end_method();
}

public static void null_constructor(ClassEmitter ce) {
    CodeEmitter e = ce.begin_method(Constants.ACC_PUBLIC, CSTRUCT_NULL, null);
    e.load_this();
    e.super_invoke_constructor();
    e.return_value();
    e.end_method();
}

/**
 * Process an array on the stack. Assumes the top item on the stack
 * is an array of the specified type. For each element in the array,
 * puts the element on the stack and triggers the callback.
 * @param type the type of the array (type.isArray() must be true)
 * @param callback the callback triggered for each element
 */
public static void process_array(CodeEmitter e, Type type, ProcessArrayCallback callback) {
    Type componentType = TypeUtils.getComponentType(type);
    Local array = e.make_local();
    Local loopvar = e.make_local(Type.INT_TYPE);
    Label loopbody = e.make_label();
    Label checkloop = e.make_label();
    e.store_local(array);
    e.push(0);
    e.store_local(loopvar);
    e.goTo(checkloop);

    e.mark(loopbody);
    e.load_local(array);
    e.load_local(loopvar);
    e.array_load(componentType);
    callback.processElement(componentType);
    e.iinc(loopvar, 1);
}

```

```

    e.mark(checkloop);
    e.load_local(loopvar);
    e.load_local(array);
    e.arraylength();
    e.if_icmp(e.LT, loopbody);
}

/**
 * Process two arrays on the stack in parallel. Assumes the top two items on the stack
 * are arrays of the specified class. The arrays must be the same length. For each pair
 * of elements in the arrays, puts the pair on the stack and triggers the callback.
 * @param type the type of the arrays (type.isArray() must be true)
 * @param callback the callback triggered for each pair of elements
 */
public static void process_arrays(CodeEmitter e, Type type, ProcessArrayCallback callback) {
    Type componentType = TypeUtils.getComponentType(type);
    Local array1 = e.make_local();
    Local array2 = e.make_local();
    Local loopvar = e.make_local(Type.INT_TYPE);
    Label loopbody = e.make_label();
    Label checkloop = e.make_label();
    e.store_local(array1);
    e.store_local(array2);
    e.push(0);
    e.store_local(loopvar);
    e.goTo(checkloop);

    e.mark(loopbody);
    e.load_local(array1);
    e.load_local(loopvar);
    e.array_load(componentType);
    e.load_local(array2);
    e.load_local(loopvar);
    e.array_load(componentType);
    callback.processElement(componentType);
    e.iinc(loopvar, 1);

    e.mark(checkloop);
    e.load_local(loopvar);
    e.load_local(array1);
    e.arraylength();
    e.if_icmp(e.LT, loopbody);
}

public static void string_switch(CodeEmitter e, String[] strings, int switchStyle, ObjectSwitchCallback callback) {
    try {
        switch (switchStyle) {
            case Constants.SWITCH_STYLE_TRIE:

```



```

        string_switch_tribe(e, strings, callback);
        break;
    case Constants.SWITCH_STYLE_HASH:
        string_switch_hash(e, strings, callback, false);
        break;
    case Constants.SWITCH_STYLE_HASHONLY:
        string_switch_hash(e, strings, callback, true);
        break;
    default:
        throw new IllegalArgumentException("unknown switch style " + switchStyle);
    }
} catch (RuntimeException ex) {
    throw ex;
} catch (Error ex) {
    throw ex;
} catch (Exception ex) {
    throw new CodeGenerationException(ex);
}
}

private static void string_switch_tribe(final CodeEmitter e,
                                       String[] strings,
                                       final ObjectSwitchCallback callback) throws Exception {
    final Label def = e.make_label();
    final Label end = e.make_label();
    final Map buckets = CollectionUtils.bucket(Arrays.asList(strings), new Transformer() {
        public Object transform(Object value) {
            return new Integer(((String)value).length());
        }
    });
    e.dup();
    e.invoke_virtual(Constants.TYPE_STRING, STRING_LENGTH);
    e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
        public void processCase(int key, Label ignore_end) throws Exception {
            List bucket = (List)buckets.get(new Integer(key));
            stringSwitchHelper(e, bucket, callback, def, end, 0);
        }
        public void processDefault() {
            e.goTo(def);
        }
    });
    e.mark(def);
    e.pop();
    callback.processDefault();
    e.mark(end);
}

private static void stringSwitchHelper(final CodeEmitter e,

```

```

        List strings,
        final ObjectSwitchCallback callback,
        final Label def,
        final Label end,
        final int index) throws Exception {
final int len = ((String)strings.get(0)).length();
final Map buckets = CollectionUtils.bucket(strings, new Transformer() {
    public Object transform(Object value) {
        return new Integer(((String)value.charAt(index));
    }
});
e.dup();
e.push(index);
e.invoke_virtual(Constants.TYPE_STRING, STRING_CHAR_AT);
e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
    public void processCase(int key, Label ignore_end) throws Exception {
        List bucket = (List)buckets.get(new Integer(key));
        if (index + 1 == len) {
            e.pop();
            callback.processCase(bucket.get(0), end);
        } else {
            stringSwitchHelper(e, bucket, callback, def, end, index + 1);
        }
    }
    public void processDefault() {
        e.goTo(def);
    }
});
}

static int[] getSwitchKeys(Map buckets) {
    int[] keys = new int[buckets.size()];
    int index = 0;
    for (Iterator it = buckets.keySet().iterator(); it.hasNext();) {
        keys[index++] = ((Integer)it.next()).intValue();
    }
    Arrays.sort(keys);
    return keys;
}

private static void string_switch_hash(final CodeEmitter e,
        final String[] strings,
        final ObjectSwitchCallback callback,
        final boolean skipEquals) throws Exception {
final Map buckets = CollectionUtils.bucket(Arrays.asList(strings), new Transformer() {
    public Object transform(Object value) {
        return new Integer(value.hashCode());
    }
}

```

```

});
final Label def = e.make_label();
final Label end = e.make_label();
e.dup();
e.invoke_virtual(Constants.TYPE_OBJECT, HASH_CODE);
e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
    public void processCase(int key, Label ignore_end) throws Exception {
        List bucket = (List)buckets.get(new Integer(key));
        Label next = null;
        if (skipEquals && bucket.size() == 1) {
            if (skipEquals)
                e.pop();
            callback.processCase((String)bucket.get(0), end);
        } else {
            for (Iterator it = bucket.iterator(); it.hasNext(); ) {
                String string = (String)it.next();
                if (next != null) {
                    e.mark(next);
                }
                if (it.hasNext()) {
                    e.dup();
                }
                e.push(string);
                e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
                if (it.hasNext()) {
                    e.if_jump(e.EQ, next = e.make_label());
                    e.pop();
                } else {
                    e.if_jump(e.EQ, def);
                }
                callback.processCase(string, end);
            }
        }
    }
    public void processDefault() {
        e.pop();
    }
});
e.mark(def);
callback.processDefault();
e.mark(end);
}

public static void load_class_this(CodeEmitter e) {
    load_class_helper(e, e.getClassEmitter().getClassType());
}

public static void load_class(CodeEmitter e, Type type) {

```

```

if (TypeUtils.isPrimitive(type)) {
    if (type == Type.VOID_TYPE) {
        throw new IllegalArgumentException("cannot load void type");
    }
    e.getstatic(TypeUtils.getBoxedType(type), "TYPE", Constants.TYPE_CLASS);
} else {
    load_class_helper(e, type);
}
}

private static void load_class_helper(CodeEmitter e, final Type type) {
    if (e.isStaticHook()) {
        // have to fall back on non-optimized load
        e.push(TypeUtils.emulateClassGetName(type));
        e.invoke_static(Constants.TYPE_CLASS, FOR_NAME);
    } else {
        ClassEmitter ce = e.getClassEmitter();
        String typeName = TypeUtils.emulateClassGetName(type);

        // TODO: can end up with duplicated field names when using chained transformers; incorporate static hook #
        somehow
        String fieldName = "CGLIB$load_class$" + TypeUtils.escapeType(typeName);
        if (!ce.isFieldDeclared(fieldName)) {
            ce.declare_field(Constants.PRIVATE_FINAL_STATIC, fieldName, Constants.TYPE_CLASS, null);
            CodeEmitter hook = ce.getStaticHook();
            hook.push(typeName);
            hook.invoke_static(Constants.TYPE_CLASS, FOR_NAME);
            hook.putstatic(ce.getClassType(), fieldName, Constants.TYPE_CLASS);
        }
        e.getfield(fieldName);
    }
}

public static void push_array(CodeEmitter e, Object[] array) {
    e.push(array.length);
    e.newarray(Type.getType(remapComponentType(array.getClass().getComponentType())));
    for (int i = 0; i < array.length; i++) {
        e.dup();
        e.push(i);
        push_object(e, array[i]);
        e.aastore();
    }
}

private static Class remapComponentType(Class componentType) {
    if (componentType.equals(Type.class))
        return Class.class;
    return componentType;
}

```

```

}

public static void push_object(CodeEmitter e, Object obj) {
    if (obj == null) {
        e.aconst_null();
    } else {
        Class type = obj.getClass();
        if (type.isArray()) {
            push_array(e, (Object[])obj);
        } else if (obj instanceof String) {
            e.push((String)obj);
        } else if (obj instanceof Type) {
            load_class(e, (Type)obj);
        } else if (obj instanceof Class) {
            load_class(e, Type.getType((Class)obj));
        } else if (obj instanceof BigInteger) {
            e.new_instance(Constants.TYPE_BIG_INTEGER);
            e.dup();
            e.push(obj.toString());
            e.invoke_constructor(Constants.TYPE_BIG_INTEGER);
        } else if (obj instanceof BigDecimal) {
            e.new_instance(Constants.TYPE_BIG_DECIMAL);
            e.dup();
            e.push(obj.toString());
            e.invoke_constructor(Constants.TYPE_BIG_DECIMAL);
        } else {
            throw new IllegalArgumentException("unknown type: " + obj.getClass());
        }
    }
}

public static void hash_code(CodeEmitter e, Type type, int multiplier, Customizer customizer) {
    if (TypeUtils.isArray(type)) {
        hash_array(e, type, multiplier, customizer);
    } else {
        e.swap(Type.INT_TYPE, type);
        e.push(multiplier);
        e.math(e.MUL, Type.INT_TYPE);
        e.swap(type, Type.INT_TYPE);
        if (TypeUtils.isPrimitive(type)) {
            hash_primitive(e, type);
        } else {
            hash_object(e, type, customizer);
        }
        e.math(e.ADD, Type.INT_TYPE);
    }
}

```

```

private static void hash_array(final CodeEmitter e, Type type, final int multiplier, final Customizer customizer) {
    Label skip = e.make_label();
    Label end = e.make_label();
    e.dup();
    e.ifnull(skip);
    EmitUtils.process_array(e, type, new ProcessArrayCallback() {
        public void processElement(Type type) {
            hash_code(e, type, multiplier, customizer);
        }
    });
    e.goTo(end);
    e.mark(skip);
    e.pop();
    e.mark(end);
}

```

```

private static void hash_object(CodeEmitter e, Type type, Customizer customizer) {
    // (f == null) ? 0 : f.hashCode();
    Label skip = e.make_label();
    Label end = e.make_label();
    e.dup();
    e.ifnull(skip);
    if (customizer != null) {
        customizer.customize(e, type);
    }
    e.invoke_virtual(Constants.TYPE_OBJECT, HASH_CODE);
    e.goTo(end);
    e.mark(skip);
    e.pop();
    e.push(0);
    e.mark(end);
}

```

```

private static void hash_primitive(CodeEmitter e, Type type) {
    switch (type.getSort()) {
    case Type.BOOLEAN:
        // f ? 0 : 1
        e.push(1);
        e.math(e.XOR, Type.INT_TYPE);
        break;
    case Type.FLOAT:
        // Float.floatToIntBits(f)
        e.invoke_static(Constants.TYPE_FLOAT, FLOAT_TO_INT_BITS);
        break;
    case Type.DOUBLE:
        // Double.doubleToLongBits(f), hash_code(Long.TYPE)
        e.invoke_static(Constants.TYPE_DOUBLE, DOUBLE_TO_LONG_BITS);
        // fall through
    }
}

```

```

    case Type.LONG:
        hash_long(e);
    }
}

private static void hash_long(CodeEmitter e) {
    // (int)(f ^ (f >>> 32))
    e.dup2();
    e.push(32);
    e.math(e.USHR, Type.LONG_TYPE);
    e.math(e.XOR, Type.LONG_TYPE);
    e.cast_numeric(Type.LONG_TYPE, Type.INT_TYPE);
}

// public static void not_equals(CodeEmitter e, Type type, Label notEquals) {
//     not_equals(e, type, notEquals, null);
// }

/**
 * Branches to the specified label if the top two items on the stack
 * are not equal. The items must both be of the specified
 * class. Equality is determined by comparing primitive values
 * directly and by invoking the <code>equals</code> method for
 * Objects. Arrays are recursively processed in the same manner.
 */
public static void not_equals(final CodeEmitter e, Type type, final Label notEquals, final Customizer customizer)
{
    (new ProcessArrayCallback() {
        public void processElement(Type type) {
            not_equals_helper(e, type, notEquals, customizer, this);
        }
    }).processElement(type);
}

private static void not_equals_helper(CodeEmitter e,
                                     Type type,
                                     Label notEquals,
                                     Customizer customizer,
                                     ProcessArrayCallback callback) {
    if (TypeUtils.isPrimitive(type)) {
        e.if_cmp(type, e.NE, notEquals);
    } else {
        Label end = e.make_label();
        nullcmp(e, notEquals, end);
        if (TypeUtils.isArray(type)) {
            Label checkContents = e.make_label();
            e.dup2();
            e.arraylength();

```

```

        e.swap();
        e.arraylength();
        e.if_icmp(e.EQ, checkContents);
        e.pop2();
        e.goTo(notEquals);
        e.mark(checkContents);
        EmitUtils.process_arrays(e, type, callback);
    } else {
        if (customizer != null) {
            customizer.customize(e, type);
            e.swap();
            customizer.customize(e, type);
        }
        e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
        e.if_jump(e.EQ, notEquals);
    }
    e.mark(end);
}
}

/**
 * If both objects on the top of the stack are non-null, does nothing.
 * If one is null, or both are null, both are popped off and execution
 * branches to the respective label.
 * @param oneNull label to branch to if only one of the objects is null
 * @param bothNull label to branch to if both of the objects are null
 */
private static void nullcmp(CodeEmitter e, Label oneNull, Label bothNull) {
    e.dup2();
    Label nonNull = e.make_label();
    Label oneNullHelper = e.make_label();
    Label end = e.make_label();
    e.ifnonnull(nonNull);
    e.ifnonnull(oneNullHelper);
    e.pop2();
    e.goTo(bothNull);

    e.mark(nonNull);
    e.ifnull(oneNullHelper);
    e.goTo(end);

    e.mark(oneNullHelper);
    e.pop2();
    e.goTo(oneNull);

    e.mark(end);
}
}

```



```

/*
public static void to_string(CodeEmitter e,
    Type type,
    ArrayDelimiters delims,
    Customizer customizer) {
    e.new_instance(Constants.TYPE_STRING_BUFFER);
    e.dup();
    e.invoke_constructor(Constants.TYPE_STRING_BUFFER);
    e.swap();
    append_string(e, type, delims, customizer);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, TO_STRING);
}
*/

public static void append_string(final CodeEmitter e,
    Type type,
    final ArrayDelimiters delims,
    final Customizer customizer) {
    final ArrayDelimiters d = (delims != null) ? delims : DEFAULT_DELIMITERS;
    ProcessArrayCallback callback = new ProcessArrayCallback() {
        public void processElement(Type type) {
            append_string_helper(e, type, d, customizer, this);
            e.push(d.inside);
            e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
        }
    };
    append_string_helper(e, type, d, customizer, callback);
}

private static void append_string_helper(CodeEmitter e,
    Type type,
    ArrayDelimiters delims,
    Customizer customizer,
    ProcessArrayCallback callback) {
    Label skip = e.make_label();
    Label end = e.make_label();
    if (TypeUtils.isPrimitive(type)) {
        switch (type.getSort()) {
            case Type.INT:
            case Type.SHORT:
            case Type.BYTE:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_INT);
                break;
            case Type.DOUBLE:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_DOUBLE);
                break;
            case Type.FLOAT:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_FLOAT);

```

```

        break;
    case Type.LONG:
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_LONG);
        break;
    case Type.BOOLEAN:
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_BOOLEAN);
        break;
    case Type.CHAR:
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_CHAR);
        break;
    }
} else if (TypeUtils.isArray(type)) {
    e.dup();
    e.ifnull(skip);
    e.swap();
    if (delims != null && delims.before != null && !"".equals(delims.before)) {
        e.push(delims.before);
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
        e.swap();
    }
    EmitUtils.process_array(e, type, callback);
    shrinkStringBuffer(e, 2);
    if (delims != null && delims.after != null && !"".equals(delims.after)) {
        e.push(delims.after);
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
    }
} else {
    e.dup();
    e.ifnull(skip);
    if (customizer != null) {
        customizer.customize(e, type);
    }
    e.invoke_virtual(Constants.TYPE_OBJECT, TO_STRING);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
}
e.goTo(end);
e.mark(skip);
e.pop();
e.push("null");
e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
e.mark(end);
}

private static void shrinkStringBuffer(CodeEmitter e, int amt) {
    e.dup();
    e.dup();
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, LENGTH);
    e.push(amt);
}

```

```

    e.math(e.SUB, Type.INT_TYPE);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, SET_LENGTH);
}

public static class ArrayDelimiters {
    private String before;
    private String inside;
    private String after;

    public ArrayDelimiters(String before, String inside, String after) {
        this.before = before;
        this.inside = inside;
        this.after = after;
    }
}

public static void load_method(CodeEmitter e, MethodInfo method) {
    load_class(e, method.getClassInfo().getType());
    e.push(method.getSignature().getName());
    push_object(e, method.getSignature().getArgumentTypes());
    e.invoke_virtual(Constants.TYPE_CLASS, GET_DECLARED_METHOD);
}

private interface ParameterTyper {
    Type[] getParameterTypes(MethodInfo member);
}

public static void method_switch(CodeEmitter e,
                                List methods,
                                ObjectSwitchCallback callback) {
    member_switch_helper(e, methods, callback, true);
}

public static void constructor_switch(CodeEmitter e,
                                     List constructors,
                                     ObjectSwitchCallback callback) {
    member_switch_helper(e, constructors, callback, false);
}

private static void member_switch_helper(final CodeEmitter e,
                                        List members,
                                        final ObjectSwitchCallback callback,
                                        boolean useName) {
    try {
        final Map cache = new HashMap();
        final ParameterTyper cached = new ParameterTyper() {
            public Type[] getParameterTypes(MethodInfo member) {
                Type[] types = (Type[])cache.get(member);
            }
        };
    }
}

```

```

        if (types == null) {
            cache.put(member, types = member.getSignature().getArgumentTypes());
        }
        return types;
    }
};
final Label def = e.make_label();
final Label end = e.make_label();
if (useName) {
    e.swap();
    final Map buckets = CollectionUtils.bucket(members, new Transformer() {
        public Object transform(Object value) {
            return ((MethodInfo)value).getSignature().getName();
        }
    });
    String[] names = (String[])buckets.keySet().toArray(new String[buckets.size()]);
    EmitUtils.string_switch(e, names, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
        public void processCase(Object key, Label dontUseEnd) throws Exception {
            member_helper_size(e, (List)buckets.get(key), callback, cached, def, end);
        }
        public void processDefault() throws Exception {
            e.goTo(def);
        }
    });
} else {
    member_helper_size(e, members, callback, cached, def, end);
}
e.mark(def);
e.pop();
callback.processDefault();
e.mark(end);
} catch (RuntimeException ex) {
    throw ex;
} catch (Error ex) {
    throw ex;
} catch (Exception ex) {
    throw new CodeGenerationException(ex);
}
}
}

```

```

private static void member_helper_size(final CodeEmitter e,
    List members,
    final ObjectSwitchCallback callback,
    final ParameterTyper typer,
    final Label def,
    final Label end) throws Exception {
    final Map buckets = CollectionUtils.bucket(members, new Transformer() {
        public Object transform(Object value) {

```

```

        return new Integer(typer.getParameterTypes((MethodInfo)value).length);
    }
});
e.dup();
e.arraylength();
e.process_switch(EmitUtils.getSwitchKeys(buckets), new ProcessSwitchCallback() {
    public void processCase(int key, Label dontUseEnd) throws Exception {
        List bucket = (List)buckets.get(new Integer(key));
        member_helper_type(e, bucket, callback, typer, def, end, new BitSet());
    }
    public void processDefault() throws Exception {
        e.goTo(def);
    }
});
}

```

```

private static void member_helper_type(final CodeEmitter e,
                                       List members,
                                       final ObjectSwitchCallback callback,
                                       final ParameterTyper typer,
                                       final Label def,
                                       final Label end,
                                       final BitSet checked) throws Exception {
    if (members.size() == 1) {
        MethodInfo member = (MethodInfo)members.get(0);
        Type[] types = typer.getParameterTypes(member);
        // need to check classes that have not already been checked via switches
        for (int i = 0; i < types.length; i++) {
            if (checked == null || !checked.get(i)) {
                e.dup();
                e.aaload(i);
                e.invoke_virtual(Constants.TYPE_CLASS, GET_NAME);
                e.push(TypeUtils.emulateClassGetName(types[i]));
                e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
                e.if_jump(e.EQ, def);
            }
        }
        e.pop();
        callback.processCase(member, end);
    } else {
        // choose the index that has the best chance of uniquely identifying member
        Type[] example = typer.getParameterTypes((MethodInfo)members.get(0));
        Map buckets = null;
        int index = -1;
        for (int i = 0; i < example.length; i++) {
            final int j = i;
            Map test = CollectionUtils.bucket(members, new Transformer() {
                public Object transform(Object value) {

```

```

        return TypeUtils.emulateClassGetName(typer.getParameterTypes((MethodInfo)value)[j]);
    }
});
if (buckets == null || test.size() > buckets.size()) {
    buckets = test;
    index = i;
}
}
if (buckets == null || buckets.size() == 1) {
    // TODO: switch by returnType
    // must have two methods with same name, types, and different return types
    e.goTo(def);
} else {
    checked.set(index);

    e.dup();
    e.aaload(index);
    e.invoke_virtual(Constants.TYPE_CLASS, GET_NAME);

    final Map fbuckets = buckets;
    String[] names = (String[])buckets.keySet().toArray(new String[buckets.size()]);
    EmitUtils.string_switch(e, names, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
        public void processCase(Object key, Label dontUseEnd) throws Exception {
            member_helper_type(e, (List)fbuckets.get(key), callback, typer, def, end, checked);
        }
        public void processDefault() throws Exception {
            e.goTo(def);
        }
    });
}
}
}

public static void wrap_throwable(Block block, Type wrapper) {
    CodeEmitter e = block.getCodeEmitter();
    e.catch_exception(block, Constants.TYPE_THROWABLE);
    e.new_instance(wrapper);
    e.dup_x1();
    e.swap();
    e.invoke_constructor(wrapper, CSTRUCT_THROWABLE);
    e.athrow();
}

public static void add_properties(ClassEmitter ce, String[] names, Type[] types) {
    for (int i = 0; i < names.length; i++) {
        String fieldName = "$cglib_prop_" + names[i];
        ce.declare_field(Constants.ACC_PRIVATE, fieldName, types[i], null);
        EmitUtils.add_property(ce, names[i], types[i], fieldName);
    }
}

```

```

    }
}

public static void add_property(ClassEmitter ce, String name, Type type, String fieldName) {
    String property = TypeUtils.upperFirst(name);
    CodeEmitter e;
    e = ce.begin_method(Constants.ACC_PUBLIC,
        new Signature("get" + property,
            type,
            Constants.TYPES_EMPTY),
        null);
    e.load_this();
    e.getfield(fieldName);
    e.return_value();
    e.end_method();

    e = ce.begin_method(Constants.ACC_PUBLIC,
        new Signature("set" + property,
            Type.VOID_TYPE,
            new Type[]{ type }),
        null);
    e.load_this();
    e.load_arg(0);
    e.putfield(fieldName);
    e.return_value();
    e.end_method();
}

/* generates:
} catch (RuntimeException e) {
    throw e;
} catch (Error e) {
    throw e;
} catch (<DeclaredException> e) {
    throw e;
} catch (Throwable e) {
    throw new <Wrapper>(e);
}
*/

public static void wrap_undeclared_throwable(CodeEmitter e, Block handler, Type[] exceptions, Type wrapper) {
    Set set = (exceptions == null) ? Collections.EMPTY_SET : new HashSet(Arrays.asList(exceptions));

    if (set.contains(Constants.TYPE_THROWABLE))
        return;

    boolean needThrow = exceptions != null;
    if (!set.contains(Constants.TYPE_RUNTIME_EXCEPTION)) {
        e.catch_exception(handler, Constants.TYPE_RUNTIME_EXCEPTION);
    }
}

```

```

        needThrow = true;
    }
    if (!set.contains(Constants.TYPE_ERROR)) {
        e.catch_exception(handler, Constants.TYPE_ERROR);
        needThrow = true;
    }
    if (exceptions != null) {
        for (int i = 0; i < exceptions.length; i++) {
            e.catch_exception(handler, exceptions[i]);
        }
    }
    if (needThrow) {
        e.athrow();
    }
    // e -> eo -> oeo -> ooe -> o
    e.catch_exception(handler, Constants.TYPE_THROWABLE);
    e.new_instance(wrapper);
    e.dup_x1();
    e.swap();
    e.invoke_constructor(wrapper, CSTRUCT_THROWABLE);
    e.athrow();
}

public static CodeEmitter begin_method(ClassEmitter e, MethodInfo method) {
    return begin_method(e, method, method.getModifiers());
}

public static CodeEmitter begin_method(ClassEmitter e, MethodInfo method, int access) {
    return e.begin_method(access,
        method.getSignature(),
        method.getExceptionTypes());
}
}
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 */

```



```

package net.sf.cglib.core;

import java.lang.reflect.Method;
import java.util.*;

public class DuplicatesPredicate implements Predicate {
    private Set unique = new HashSet();

    public boolean evaluate(Object arg) {
        return unique.add(MethodWrapper.create((Method)arg));
    }
}
/*
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 */
package net.sf.cglib.core;

import java.util.Set;

/**
 * The default policy used by {@link AbstractClassGenerator}.
 * Generates names such as
 * net.sf.cglib.Foo$$EnhancerByCGLIB$$38272841
 * This is composed of a prefix based on the name of the superclass, a fixed
 * string incorporating the CGLIB class responsible for generation, and a
 * hashcode derived from the parameters used to create the object. If the same
 * name has been previously been used in the same ClassLoader, a
 * suffix is added to ensure uniqueness.
 */
public class DefaultNamingPolicy implements NamingPolicy {
    public static final DefaultNamingPolicy INSTANCE = new DefaultNamingPolicy();

    public String getClassName(String prefix, String source, Object key, Predicate names) {
        if (prefix == null) {
            prefix = "net.sf.cglib.empty.Object";
        } else if (prefix.startsWith("java")) {

```

```

        prefix = "$" + prefix;
    }
    String base =
        prefix + "$" +
        source.substring(source.lastIndexOf('.') + 1) +
        getTag() + "$" +
        Integer.toHexString(key.hashCode());
    String attempt = base;
    int index = 2;
    while (names.evaluate(attempt))
        attempt = base + "_" + index++;
    return attempt;
}

/**
 * Returns a string which is incorporated into every generated class name.
 * By default returns "ByCGLIB"
 */
protected String getTag() {
    return "ByCGLIB";
}
}
/*
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 */
package net.sf.cglib.util;

import java.util.*;

abstract class SorterTemplate {
    private static final int MERGESORT_THRESHOLD = 12;
    private static final int QUICKSORT_THRESHOLD = 7;

    abstract protected void swap(int i, int j);
    abstract protected int compare(int i, int j);

```

```

protected void quickSort(int lo, int hi) {
    quickSortHelper(lo, hi);
    insertionSort(lo, hi);
}

private void quickSortHelper(int lo, int hi) {
    for (;;) {
        int diff = hi - lo;
        if (diff <= QUICKSORT_THRESHOLD) {
            break;
        }
        int i = (hi + lo) / 2;
        if (compare(lo, i) > 0) {
            swap(lo, i);
        }
        if (compare(lo, hi) > 0) {
            swap(lo, hi);
        }
        if (compare(i, hi) > 0) {
            swap(i, hi);
        }
        int j = hi - 1;
        swap(i, j);
        i = lo;
        int v = j;
        for (;;) {
            while (compare(++i, v) < 0) {
                /* nothing */;
            }
            while (compare(--j, v) > 0) {
                /* nothing */;
            }
            if (j < i) {
                break;
            }
            swap(i, j);
        }
        swap(i, hi - 1);
        if (j - lo <= hi - i + 1) {
            quickSortHelper(lo, j);
            lo = i + 1;
        } else {
            quickSortHelper(i + 1, hi);
            hi = j;
        }
    }
}

```

```

private void insertionSort(int lo, int hi) {
    for (int i = lo + 1; i <= hi; i++) {
        for (int j = i; j > lo; j--) {
            if (compare(j - 1, j) > 0) {
                swap(j - 1, j);
            } else {
                break;
            }
        }
    }
}

protected void mergeSort(int lo, int hi) {
    int diff = hi - lo;
    if (diff <= MERGESORT_THRESHOLD) {
        insertionSort(lo, hi);
        return;
    }
    int mid = lo + diff / 2;
    mergeSort(lo, mid);
    mergeSort(mid, hi);
    merge(lo, mid, hi, mid - lo, hi - mid);
}

private void merge(int lo, int pivot, int hi, int len1, int len2) {
    if (len1 == 0 || len2 == 0) {
        return;
    }
    if (len1 + len2 == 2) {
        if (compare(pivot, lo) < 0) {
            swap(pivot, lo);
        }
        return;
    }
    int first_cut, second_cut;
    int len11, len22;
    if (len1 > len2) {
        len11 = len1 / 2;
        first_cut = lo + len11;
        second_cut = lower(pivot, hi, first_cut);
        len22 = second_cut - pivot;
    } else {
        len22 = len2 / 2;
        second_cut = pivot + len22;
        first_cut = upper(lo, pivot, second_cut);
        len11 = first_cut - lo;
    }
    rotate(first_cut, pivot, second_cut);
}

```

```

int new_mid = first_cut + len22;
merge(lo, first_cut, new_mid, len11, len22);
merge(new_mid, second_cut, hi, len1 - len11, len2 - len22);
}

```

```

private void rotate(int lo, int mid, int hi) {
    int lot = lo;
    int hit = mid - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
    lot = mid; hit = hi - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
    lot = lo; hit = hi - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
}

```

```

private int lower(int lo, int hi, int val) {
    int len = hi - lo;
    while (len > 0) {
        int half = len / 2;
        int mid = lo + half;
        if (compare(mid, val) < 0) {
            lo = mid + 1;
            len = len - half - 1;
        } else {
            len = half;
        }
    }
    return lo;
}

```

```

private int upper(int lo, int hi, int val) {
    int len = hi - lo;
    while (len > 0) {
        int half = len / 2;
        int mid = lo + half;
        if (compare(val, mid) < 0) {
            len = half;
        } else {
            lo = mid + 1;
            len = len - half - 1;
        }
    }
}

```

```

    return lo;
}
}
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 */
package net.sf.cglib.util;

import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;

class ParallelSorterEmitter extends ClassEmitter {
    private static final Type PARALLEL_SORTER =
        TypeUtils.parseType("net.sf.cglib.util.ParallelSorter");
    private static final Signature CSTRUCT_OBJECT_ARRAY =
        TypeUtils.parseConstructor("Object[]");
    private static final Signature NEW_INSTANCE =
        new Signature("newInstance", PARALLEL_SORTER, new Type[]{ Constants.TYPE_OBJECT_ARRAY });
    private static final Signature SWAP =
        TypeUtils.parseSignature("void swap(int, int)");

    public ParallelSorterEmitter(ClassVisitor v, String className, Object[] arrays) {
        super(v);
        begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, PARALLEL_SORTER, null,
Constants.SOURCE_FILE);
        EmitUtils.null_constructor(this);
        EmitUtils.factory_method(this, NEW_INSTANCE);
        generateConstructor(arrays);
        generateSwap(arrays);
        end_class();
    }

    private String getFieldname(int index) {

```

```

    return "FIELD_" + index;
}

private void generateConstructor(Object[] arrays) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT_ARRAY, null);
    e.load_this();
    e.super_invoke_constructor();
    e.load_this();
    e.load_arg(0);
    e.super_putfield("a", Constants.TYPE_OBJECT_ARRAY);
    for (int i = 0; i < arrays.length; i++) {
        Type type = Type.getType(arrays[i].getClass());
        declare_field(Constants.ACC_PRIVATE, getFieldname(i), type, null);
        e.load_this();
        e.load_arg(0);
        e.push(i);
        e.aaload();
        e.checkcast(type);
        e.putfield(getFieldname(i));
    }
    e.return_value();
    e.end_method();
}

private void generateSwap(final Object[] arrays) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SWAP, null);
    for (int i = 0; i < arrays.length; i++) {
        Type type = Type.getType(arrays[i].getClass());
        Type component = TypeUtils.getComponentType(type);
        Local T = e.make_local(type);

        e.load_this();
        e.getfield(getFieldname(i));
        e.store_local(T);

        e.load_local(T);
        e.load_arg(0);

        e.load_local(T);
        e.load_arg(1);
        e.array_load(component);

        e.load_local(T);
        e.load_arg(1);

        e.load_local(T);
        e.load_arg(0);
        e.array_load(component);
    }
}

```

```
e.array_store(component);
e.array_store(component);
}
e.return_value();
e.end_method();
}
}
```

## 8.25 Commons Logging 1.1.1

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## 8.28 commons-lang3 3.1

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## 8.34 controller-config-manager .2.5-Helium

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# 8.35 controller-config-netconf-connector

## 0.2.5-Helium

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## 8.36 controller-config-netty-config 0.2.5-

### Helium

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## 8.37 controller-config-persister-api 0.2.5- Helium

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## 8.38 controller-config-persister-directory-xml-adapter 0.2.5-Helium

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## 8.39 controller-config-persister-feature-adapter 0.2.5-Helium

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# 8.40 controller-config-persister-file-xml-adapter 0.2.8-Helium-SR3

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## 8.41 controller-config-persister-impl 0.2.8-Helium-SR3

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## 8.42 controller-config-util 0.2.5-Helium

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# 8.43 controller-features-akka-features 1.4.2- Helium

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## 8.44 controller-features-config-features 0.2.5-Helium

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## 8.45 controller-features-mdsal 1.1-Helium

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# 8.46 controller-features-protocol-framework

## 0.5-Helium

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## 8.47 controller-ietf-netconf-monitoring 0.2.5-Helium

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## 8.48 controller-ietf-netconf-monitoring-extension 0.2.5-Helium

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# 8.49 controller-karaf.branding 1.0.0-Helium

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## 8.50 controller-md-sal-config 1.1-Helium

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# 8.51 controller-netconf-api 0.2.5-Helium

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## 8.52 controller-netconf-auth 0.2.5-Helium

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# 8.54 controller-netconf-config 0.2.5-Helium

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## 8.55 controller-netconf-config-dispatcher

### 0.2.5-Helium

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## 8.56 controller-netconf-connector-config

### 0.2.5-Helium

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# 8.57 controller-netconf-mapping-api 0.2.5-Helium

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## 8.58 controller-netconf-monitoring 0.2.5-Helium

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# 8.59 controller-netconf-netty-util 0.2.5-Helium

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## 8.60 controller-netconf-util 0.2.5-Helium

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## 8.61 controller-netty-config-api 0.2.5-Helium

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# 8.62 controller-netty-event-executor-config

## 0.2.5-Helium

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## 8.63 controller-netty-threadgroup-config

### 0.2.5-Helium

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## 8.64 controller-netty-timer-config 0.2.5-

### Helium

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# 8.65 controller-opendaylight-karaf-empty:zip

## 1.4.2-Helium

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## 8.66 controller-opendaylight-karaf-resources

### 1.4.2-Helium

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## 8.68 controller-sal-akka-raft 1.1-Helium

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## 8.69 controller-sal-binding-api 1.1-Helium

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# 8.70 controller-sal-binding-broker-impl 1.1- Helium

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## 8.71 controller-sal-binding-config 1.1-Helium

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## 8.72 controller-sal-binding-util 1.1-Helium

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# 8.73 controller-sal-clustering-commons 1.1-Helium

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## 8.74 controller-sal-common 1.1-Helium

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# 8.75 controller-sal-common-api 1.1-Helium

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## 8.76 controller-sal-common-impl 1.1-Helium

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## 8.77 controller-sal-common-util 1.1-Helium

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# 8.78 controller-sal-connector-api 1.1-Helium

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## 8.79 controller-sal-core-spi 1.1-Helium

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# 8.80 controller-sal-distributed-datastore 1.1-Helium

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## 8.81 controller-sal-dom-xsql 1.1-Helium

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## 8.82 controller-sal-dom-xsql-config 1.1-

### Helium

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# 8.83 controller-sal-inmemory-datatore 1.1- Helium

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## 8.84 controller-sal-karaf-xsql 1.1-Helium

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## 8.85 controller-sal-netconf-connector 1.1- Helium

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# 8.86 controller-sal-remote 1.1-Helium

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## 8.87 controller-sal-remotepc-connector 1.1-

### Helium

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## 8.88 controller-sal-rest-connector 1.1-Helium

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# 8.89 controller-sal-rest-connector-config 1.1-Helium

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## 8.90 controller-sal-rest-docgen 1.1-Helium

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# 8.91 controller-samples:sample-toaster 1.1-Helium

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## 8.92 controller-samples:sample-toaster-comsumer 1.1-Helium

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## 8.93 controller-samples:sample-toaster-config 1-Helium

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## 8.96 controller-shutdown-impl 0.2.5-Helium

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# 8.97 controller-thirdparty-ganymed 1.1-Helium

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## 8.99 controller-threadpool-config-impl 0.2.5-Helium

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# 8.100 controller-yang-jmx-generator 0.2.5- Helium

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## 8.101 controller-yang-jmx-generator-plugin

### 0.2.5-Helium

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```
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AppleJavaExtensions  
v 1.2

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## 8.115 geronimo-j2ee-management\_1.1\_spec

### 1.0.1

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## 8.123 groovy-all 2.0.1

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*/

```

```
package org.codehaus.groovy.runtime;
```

```
import groovy.lang.GString;
```

```
/**
```

```

* Default implementation of a GString used by the compiler. A GString
* consist of a list of values and strings which can be combined to
* create a new String.

```

```
*
```

```
* @author Jochen Theodorou
```

```
* @see groovy.lang.GString
```

```
*/
```

```
public class GStringImpl extends GString {
    private String[] strings;
```

```
/**
```

```

* Create a new GString with values and strings.

```

```
* <p>
```

```
* Each value is prefixed by a string, after the last value
```

```
* an additional String might be used. This means
```

```
* strings.length == values.length || strings.length == values.length + 1.
```

```
* </p><p>
```

```

* NOTE: The lengths are not checked. Using different lengths might result
* in unpredictable behaviour.

```

```
* </p>
```

```
*
```

```
* @param values the value parts
```

```
* @param strings the string parts
```

```
*/
```

```
public GStringImpl(Object[] values, String[] strings) {
    super(values);
    this.strings = strings;
}

```

```
/**
```

```

* Get the strings of this GString.

```

```
* <p>
```

```
* This methods returns the same array as used in the constructor. Changing
```

```
* the values will result in changes of the GString. It is not recommended
```



```

* to do so.
* </p>
*/
public String[] getStrings() {
    return strings;
}

}
/*
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*/
package org.codehaus.groovy.runtime.m12n;

import groovy.lang.MetaMethod;
import org.codehaus.groovy.reflection.CachedClass;
import org.codehaus.groovy.reflection.CachedMethod;
import org.codehaus.groovy.reflection.ReflectionCache;
import org.codehaus.groovy.runtime.metaclass.NewInstanceMetaMethod;
import org.codehaus.groovy.runtime.metaclass.NewStaticMetaMethod;

import java.util.LinkedList;
import java.util.List;
import java.util.logging.Logger;

/**
* An extension module which provides extension methods using a { @link
org.codehaus.groovy.runtime.DefaultGroovyMethods }-like implementation, that
* is to say using static methods defined in an "extension class".
* <p/>
* For commodity, multiple extension classes may be defined in a single module, including classes used to define
new
* static methods.
* <p/>
* Modules are required to implement the { @link #getInstanceMethodsExtensionClasses } for classes defining new
instance
* methods, and { @link #getStaticMethodsExtensionClasses() } for classes defining static methods.

```

\* <p/>

\* For example, to define a module adding methods to the {@link String} class, you can write a helper class:

```
* <pre>class StringExtension {
*     public static int count(String self, char c) {
*         int result = 0;
*         for (int i=0;i<self.length(); i++) {
*             if (self.charAt(i)==c) result++;
*         }
*         return result;
*     }
* }</pre>
```

\* <p/>

\* This class defines a single static method taking the string instance as first argument, allowing to define

\* a new instance method on the String class: <pre>String#count(char c)</pre>.

\* <p/>

\* To define a new static method on a class, as the static modifier is already used for instance methods, you must use

\* another helper class, for example:

\* <p/>

```
* <pre>class StaticStringExtension {
*     public static void foo(String self) { System.out.println("foo"); }
* }</pre>
```

\* <p/>

\* The first argument of the method is only used to tell the class for which we add a static method. You can now define

\* an extension module:

\* <p/>

```
* <pre>class MyStringModule extends SimpleExtensionModule {
*     // ...
* }</pre>
```

\* <p/>

```
*     public List<Class> getInstanceMethodsExtensionClasses() {
*         return Collections.singletonList(StringExtension.class);
*     }
*     public List<Class> getStaticMethodsExtensionClasses() {
*         return Collections.singletonList(StaticStringExtension.class);
*     }
* }</pre>
```

\* <p/>

\*

\* @author Cedric Champeau

\* @since 2.0.0

\*/

```
public abstract class SimpleExtensionModule extends ExtensionModule {
```

```
    private final static Logger LOG = Logger.getLogger(SimpleExtensionModule.class.getName());
```

```
    public SimpleExtensionModule(final String moduleName, final String moduleVersion) {
        super(moduleName, moduleVersion);
    }
```

```

@Override
public List<MetaMethod> getMetaMethods() {
    List<MetaMethod> metaMethods = new LinkedList<MetaMethod>();
    List<Class> extensionClasses = getInstanceMethodsExtensionClasses();
    for (Class extensionClass : extensionClasses) {
        try {
            createMetaMethods(extensionClass, metaMethods, false);
        } catch (LinkageError e) {
            LOG.warning("Module ["+getName()+"] - Unable to load extension class ["+extensionClass+"] due to
["+e.getMessage()+"]. Maybe this module is not supported by your JVM version.");
        }
    }
    extensionClasses = getStaticMethodsExtensionClasses();
    for (Class extensionClass : extensionClasses) {
        try {
            createMetaMethods(extensionClass, metaMethods, true);
        } catch (LinkageError e) {
            LOG.warning("Module ["+getName()+"] - Unable to load extension class ["+extensionClass+"] due to
["+e.getMessage()+"]. Maybe this module is not supported by your JVM version.");
        }
    }
    return metaMethods;
}

private void createMetaMethods(final Class extensionClass, final List<MetaMethod> metaMethods, final boolean
isStatic) {
    CachedClass cachedClass = ReflectionCache.getCachedClass(extensionClass);
    CachedMethod[] methods = cachedClass.getMethods();
    for (CachedMethod method : methods) {
        if (method.isStatic() && method.isPublic() && method.getParamsCount() > 0) {
            // an extension method is found
            metaMethods.add(isStatic?new NewStaticMetaMethod(method) : new
NewInstanceMetaMethod(method));
        }
    }
}

/**
 * @return the list of classes defining new instance methods.
 */
public abstract List<Class> getInstanceMethodsExtensionClasses();

/**
 * @return the list of classes defining new static methods.
 */
public abstract List<Class> getStaticMethodsExtensionClasses();

```

```

}
/*
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 */
package org.codehaus.groovy.runtime.metaclass;

import groovy.lang.*;

import org.codehaus.groovy.classgen.Verifier;
import org.codehaus.groovy.reflection.*;
import org.codehaus.groovy.runtime.*;
import org.codehaus.groovy.runtime.m12n.ExtensionModule;
import org.codehaus.groovy.runtime.m12n.ExtensionModuleRegistry;
import org.codehaus.groovy.runtime.m12n.StandardPropertiesModuleFactory;
import org.codehaus.groovy.vmpugin.VMPluginFactory;
import org.codehaus.groovy.util.FastArray;
import org.codehaus.groovy.util.ManagedLinkedList;
import org.codehaus.groovy.util.ReferenceBundle;

import java.io.IOException;
import java.lang.reflect.Constructor;
import java.lang.reflect.Field;
import java.lang.reflect.Modifier;
import java.net.URL;
import java.util.*;

/**
 * A registry of MetaClass instances which caches introspection &
 * reflection information and allows methods to be dynamically added to
 * existing classes at runtime
 *
 * @author <a href="mailto:james@coredevelopers.net">James Strachan</a>
 * @author John Wilson
 * @author <a href="mailto:blackdrag@gmx.org">Jochen Theodorou</a>
 * @author Graeme Rocher
 * @author Alex Tkachman

```

```

*
* @version $Revision$
*/
public class MetaClassRegistryImpl implements MetaClassRegistry{
    public final static String MODULE_META_INF_FILE = "META-
INF/services/org.codehaus.groovy.runtime.ExtensionModule";

    private boolean useAccessible;

    private FastArray instanceMethods = new FastArray();
    private FastArray staticMethods = new FastArray();

    private LinkedList<MetaClassRegistryChangeListener> changeListenerList = new LinkedList();
    private LinkedList<MetaClassRegistryChangeListener> nonRemoveableChangeListenerList = new
LinkedList();
    private ManagedLinkedList metaClassInfo = new
ManagedLinkedList<MetaClass>(ReferenceBundle.getWeakBundle());
    private ExtensionModuleRegistry moduleRegistry = new ExtensionModuleRegistry();

    public static final int LOAD_DEFAULT = 0;
    public static final int DONT_LOAD_DEFAULT = 1;
    private static MetaClassRegistry instanceInclude;
    private static MetaClassRegistry instanceExclude;

    public MetaClassRegistryImpl() {
        this(LOAD_DEFAULT, true);
    }

    public MetaClassRegistryImpl(int loadDefault) {
        this(loadDefault, true);
    }

    /**
     * @param useAccessible defines whether or not the {@link
java.lang.reflect.AccessibleObject#setAccessible(boolean)}
     *         method will be called to enable access to all methods when using reflection
     */
    public MetaClassRegistryImpl(boolean useAccessible) {
        this(LOAD_DEFAULT, useAccessible);
    }

    public MetaClassRegistryImpl(final int loadDefault, final boolean useAccessible) {
        this.useAccessible = useAccessible;

        if (loadDefault == LOAD_DEFAULT) {
            Map<CachedClass, List<MetaMethod>> map = new HashMap<CachedClass, List<MetaMethod>>();

            // let's register the default methods

```

```

registerMethods(null, true, true, map);
final Class[] additional = DefaultGroovyMethods.additional;
for (int i = 0; i != additional.length; ++i) {
    createMetaMethodFromClass(map, additional[i]);
}

Class[] pluginDGMs = VMPluginFactory.getPlugin().getPluginDefaultGroovyMethods();
for (Class plugin : pluginDGMs) {
    registerMethods(plugin, false, true, map);
}
registerMethods(DefaultGroovyStaticMethods.class, false, false, map);
Class[] staticPluginDGMs = VMPluginFactory.getPlugin().getPluginStaticGroovyMethods();
for (Class plugin : staticPluginDGMs) {
    registerMethods(plugin, false, false, map);
}

registerClasspathModules(map, this.getClass().getClassLoader());

refreshMopMethods(map);

}

installMetaClassCreationHandle();

final MetaClass emcMetaClass = metaClassCreationHandle.create(ExpandoMetaClass.class, this);
emcMetaClass.initialize();
ClassInfo.getClassInfo(ExpandoMetaClass.class).setStrongMetaClass(emcMetaClass);

addNonRemovableMetaClassRegistryChangeListener(new MetaClassRegistryChangeListener(){
    public void updateConstantMetaClass(MetaClassRegistryChangeEvent cmcu) {
        synchronized (metaClassInfo) {
            metaClassInfo.add(cmcu.getNewMetaClass());
            DefaultMetaClassInfo.getNewConstantMetaClassVersioning();
            Class c = cmcu.getClassToUpdate();
            DefaultMetaClassInfo.setPrimitiveMeta(c, cmcu.getNewMetaClass()==null);
            Field sdyn;
            try {
                sdyn = c.getDeclaredField(Verifier.STATIC_METACLASS_BOOL);
                sdyn.setBoolean(null, cmcu.getNewMetaClass()!=null);
            } catch (Throwable e) {
                //DO NOTHING
            }
        }
    }
});
}

```

```

private void refreshMopMethods(final Map<CachedClass, List<MetaMethod>> map) {
    for (Map.Entry<CachedClass, List<MetaMethod>> e : map.entrySet()) {
        CachedClass cls = e.getKey();
        cls.setNewMopMethods(e.getValue());
    }
}

private void registerClasspathModules(final Map<CachedClass, List<MetaMethod>> map, final ClassLoader
classLoader) {
    try {
        Enumeration<URL> resources = classLoader.getResources(MODULE_META_INF_FILE);
        while (resources.hasMoreElements()) {
            URL url = resources.nextElement();
            registerExtensionModuleFromMetaInf(url, map, classLoader);
        }
    } catch (IOException e) {
        // DO NOTHING
    }
}

private void registerExtensionModuleFromMetaInf(final URL metadata, final Map<CachedClass,
List<MetaMethod>> map, final ClassLoader classLoader) {
    Properties properties = new Properties();
    try {
        properties.load(metadata.openStream());
    } catch (IOException e) {
        throw new GroovyRuntimeException("Unable to load module META-INF descriptor",e);
    }
    registerExtensionModuleFromProperties(properties, classLoader, map);
}

public void registerExtensionModuleFromProperties(final Properties properties, final ClassLoader classLoader,
final Map<CachedClass, List<MetaMethod>> map) {
    StandardPropertiesModuleFactory factory = new StandardPropertiesModuleFactory();
    ExtensionModule module = factory.newModule(properties, classLoader);
    if (moduleRegistry.hasModule(module.getName())) {
        ExtensionModule loadedModule = moduleRegistry.getModule(module.getName());
        if (loadedModule.getVersion().equals(module.getVersion())) {
            // already registered
            return;
        } else {
            throw new GroovyRuntimeException("Conflicting module versions. Module ["+module.getName()+"] is
loaded in version "+
                loadedModule.getVersion()+"] and you are trying to load version "+module.getVersion());
        }
    }
    moduleRegistry.addModule(module);
}

```

```

// register MetaMethods
List<MetaMethod> metaMethods = module.getMetaMethods();
for (MetaMethod metaMethod : metaMethods) {
    CachedClass cachedClass = metaMethod.getDeclaringClass();
    List<MetaMethod> methods = map.get(cachedClass);
    if (methods==null) {
        methods = new ArrayList<MetaMethod>(4);
        map.put(cachedClass, methods);
    }
    methods.add(metaMethod);
    if (metaMethod.isStatic()) {
        staticMethods.add(metaMethod);
    } else {
        instanceMethods.add(metaMethod);
    }
}
}

public ExtensionModuleRegistry getModuleRegistry() {
    return moduleRegistry;
}

/**
 * Looks for a class called 'groovy.runtime.metaclass.CustomMetaClassCreationHandle' and if it exists uses it as
the MetaClassCreationHandle
 * otherwise uses the default
 *
 * @see groovy.lang.MetaClassRegistry.MetaClassCreationHandle
 */
private void installMetaClassCreationHandle() {
    try {
        final Class customMetaClassHandle =
Class.forName("groovy.runtime.metaclass.CustomMetaClassCreationHandle");
        final Constructor customMetaClassHandleConstructor = customMetaClassHandle.getConstructor(new
Class[]{});
        this.metaClassCreationHandle =
(MetaClassCreationHandle)customMetaClassHandleConstructor.newInstance();
    } catch (final ClassNotFoundException e) {
        this.metaClassCreationHandle = new MetaClassCreationHandle();
    } catch (final Exception e) {
        throw new GroovyRuntimeException("Could not instantiate custom Metaclass creation handle: "+ e, e);
    }
}

private void registerMethods(final Class theClass, final boolean useMethodWrapper, final boolean
useInstanceMethods, Map<CachedClass, List<MetaMethod>> map) {
    if (useMethodWrapper) {
        // Here we instantiate objects representing MetaMethods for DGM methods.

```



```

// Calls for such meta methods done without reflection, so more effectively.

try {
    List<GeneratedMetaMethod.DgmMethodRecord> records =
GeneratedMetaMethod.DgmMethodRecord.loadDgmInfo();

    for (GeneratedMetaMethod.DgmMethodRecord record : records) {
        Class[] newParams = new Class[record.parameters.length - 1];
        System.arraycopy(record.parameters, 1, newParams, 0, record.parameters.length-1);

        MetaMethod method = new GeneratedMetaMethod.Proxy(
            record.className,
            record.methodName,
            ReflectionCache.getCachedClass(record.parameters[0]),
            record.returnType,
            newParams
        );
        final CachedClass declClass = method.getDeclaringClass();
        List<MetaMethod> arr = map.get(declClass);
        if (arr == null) {
            arr = new ArrayList<MetaMethod>(4);
            map.put(declClass, arr);
        }
        arr.add(method);
        instanceMethods.add(method);
    }
} catch (Throwable e) {
    e.printStackTrace();
    // we print the error, but we don't stop with an exception here
    // since it is more comfortable this way for development
}
} else {
    CachedMethod[] methods = ReflectionCache.getCachedClass(theClass).getMethods();

    for (CachedMethod method : methods) {
        final int mod = method.getModifiers();
        if (Modifier.isStatic(mod) && Modifier.isPublic(mod) &&
method.getCachedMethod().getAnnotation(Deprecated.class) == null) {
            CachedClass[] paramTypes = method.getParameterTypes();
            if (paramTypes.length > 0) {
                List<MetaMethod> arr = map.get(paramTypes[0]);
                if (arr == null) {
                    arr = new ArrayList<MetaMethod>(4);
                    map.put(paramTypes[0], arr);
                }
                if (useInstanceMethods) {
                    final NewInstanceMetaMethod metaMethod = new NewInstanceMetaMethod(method);
                    arr.add(metaMethod);
                }
            }
        }
    }
}
}

```

```

        instanceMethods.add(metaMethod);
    } else {
        final NewStaticMetaMethod metaMethod = new NewStaticMetaMethod(method);
        arr.add(metaMethod);
        staticMethods.add(metaMethod);
    }
}
}
}
}
}

private void createMetaMethodFromClass(Map<CachedClass, List<MetaMethod>> map, Class aClass) {
    try {
        MetaMethod method = (MetaMethod) aClass.newInstance();
        final CachedClass declClass = method.getDeclaringClass();
        List<MetaMethod> arr = map.get(declClass);
        if (arr == null) {
            arr = new ArrayList<MetaMethod>(4);
            map.put(declClass, arr);
        }
        arr.add(method);
        instanceMethods.add(method);
    } catch (InstantiationException e) { /* ignore */
    } catch (IllegalAccessException e) { /* ignore */
    }
}

public final MetaClass getMetaClass(Class theClass) {
    return ClassInfo.getClassInfo(theClass).getMetaClass();
}

public MetaClass getMetaClass(Object obj) {
    return ClassInfo.getClassInfo(obj.getClass()).getMetaClass(obj);
}

/**
 * if oldMc is null, newMc will replace whatever meta class was used before.
 * if oldMc is not null, then newMc will be used only if he stored mc is
 * the same as oldMc
 */
private void setMetaClass(Class theClass, MetaClass oldMc, MetaClass newMc) {
    final ClassInfo info = ClassInfo.getClassInfo(theClass);

    MetaClass mc = null;
    info.lock();
    try {
        mc = info.getStrongMetaClass();
    }
}

```

```

        info.setStrongMetaClass(newMc);
    } finally {
        info.unlock();
    }
    if ((oldMc == null && mc != newMc) || (oldMc != null && mc != newMc && mc != oldMc)) {
        fireConstantMetaClassUpdate(null, theClass, mc, newMc);
    }
}

public void removeMetaClass(Class theClass) {
    setMetaClass(theClass, null, null);
}

/**
 * Registers a new MetaClass in the registry to customize the type
 *
 * @param theClass
 * @param theMetaClass
 */
public void setMetaClass(Class theClass, MetaClass theMetaClass) {
    setMetaClass(theClass, null, theMetaClass);
}

public void setMetaClass(Object obj, MetaClass theMetaClass) {
    Class theClass = obj.getClass ();
    final ClassInfo info = ClassInfo.getClassInfo(theClass);
    MetaClass oldMC = null;
    info.lock();
    try {
        oldMC = info.getPerInstanceMetaClass(obj);
        info.setPerInstanceMetaClass(obj, theMetaClass);
    }
    finally {
        info.unlock();
    }

    fireConstantMetaClassUpdate(obj, theClass, oldMC, theMetaClass);
}

public boolean useAccessible() {
    return useAccessible;
}

// the following is experimental code, not intended for stable use yet
private volatile MetaClassCreationHandle metaClassCreationHandle = new MetaClassCreationHandle();

```

```

/**
 * Gets a handle internally used to create MetaClass implementations
 * WARNING: experimental code, likely to change soon
 * @return the handle
 */
public MetaClassCreationHandle getMetaClassCreationHandler() {
    return metaClassCreationHandle;
}

/**
 * Sets a handle internally used to create MetaClass implementations.
 * When replacing the handle with a custom version, you should
 * reuse the old handle to keep custom logic and to use the
 * default logic as fall back.
 * WARNING: experimental code, likely to change soon
 * @param handle the handle
 */
public void setMetaClassCreationHandle(MetaClassCreationHandle handle) {
    if(handle == null) throw new IllegalArgumentException("Cannot set MetaClassCreationHandle to null value!");
    ClassInfo.clearModifiedExpandos();
    handle.setDisableCustomMetaClassLookup(metaClassCreationHandle.isDisableCustomMetaClassLookup());
    metaClassCreationHandle = handle;
}

/**
 * Adds a listener for constant meta classes.
 * @param listener the listener
 */
public void addMetaClassRegistryChangeListener(MetaClassRegistryChangeListener listener) {
    synchronized (changeListenerList) {
        changeListenerList.add(listener);
    }
}

/**
 * Adds a listener for constant meta classes. This listener cannot be removed!
 * @param listener the listener
 */
public void addNonRemovableMetaClassRegistryChangeListener(MetaClassRegistryChangeListener
listener) {
    synchronized (changeListenerList) {
        nonRemoveableChangeListenerList.add(listener);
    }
}

/**
 * Removes a constant meta class listener.

```

```

* @param listener the listener
*/
public void removeMetaClassRegistryChangeListener(MetaClassRegistryChangeListener listener) {
    synchronized (changeListenerList) {
        changeListenerList.remove(listener);
    }
}

/**
* Causes the execution of all registered listeners. This method is used mostly
* internal to kick of the listener notification. It can also be used by subclasses
* to achieve the same.
*
* @param obj object instance if the MetaClass change is on a per-instance metaclass (or null if global)
* @param c the class
* @param oldMC the old MetaClass
* @param newMc the new MetaClass
*/
protected void fireConstantMetaClassUpdate(Object obj, Class c, final MetaClass oldMC, MetaClass newMc) {
    MetaClassRegistryChangeListener[] listener = getMetaClassRegistryChangeListeners();
    MetaClassRegistryChangeEvent cmcu = new MetaClassRegistryChangeEvent(this, obj, c, oldMC, newMc);
    for (int i = 0; i < listener.length; i++) {
        listener[i].updateConstantMetaClass(cmcu);
    }
}

/**
* Gets an array of of all registered ConstantMetaClassListener instances.
*/
public MetaClassRegistryChangeListener[] getMetaClassRegistryChangeListeners() {
    synchronized (changeListenerList) {
        ArrayList<MetaClassRegistryChangeListener> ret = new
ArrayList(changeListenerList.size()+nonRemoveableChangeListenerList.size());
        ret.addAll(nonRemoveableChangeListenerList);
        ret.addAll(changeListenerList);
        return (MetaClassRegistryChangeListener[]) ret.toArray(new
MetaClassRegistryChangeListener[ret.size()]);
    }
}

/**
* Singleton of MetaClassRegistry.
*
* @param includeExtension
* @return the registry
*/
public static MetaClassRegistry getInstance(int includeExtension) {
    if (includeExtension != DONT_LOAD_DEFAULT) {

```

```

        if (instanceInclude == null) {
            instanceInclude = new MetaClassRegistryImpl();
        }
        return instanceInclude;
    } else {
        if (instanceExclude == null) {
            instanceExclude = new MetaClassRegistryImpl(DONT_LOAD_DEFAULT);
        }
        return instanceExclude;
    }
}

public FastArray getInstanceMethods() {
    return instanceMethods;
}

public FastArray getStaticMethods() {
    return staticMethods;
}

/**
 * Returns an iterator to iterate over all constant meta classes.
 * This iterator can be seen as making a snapshot of the current state
 * of the registry. The snapshot will include all meta classes that has
 * been used unless they are already collected. Collected meta classes
 * will be skipped automatically, so you can expect that each element
 * of the iteration is not null. Calling this method is thread safe, the
 * usage of the iterator is not.
 *
 * @return the iterator.
 */
public Iterator iterator() {
    final MetaClass[] refs;
    synchronized (metaClassInfo) {
        refs = (MetaClass[]) metaClassInfo.toArray(new MetaClass[0]);
    }

    return new Iterator() {
        // index in the ref array
        private int index = 0;
        // the current meta class
        private MetaClass currentMeta;
        // used to ensure that hasNext has been called
        private boolean hasNextCalled = false;
        // the cached hasNext call value
        private boolean hasNext = false;

        public boolean hasNext() {

```

```

    if (hasNextCalled) return hasNext;
    hasNextCalled = true;
    if(index < refs.length) {
        hasNext = true;
        currentMeta = refs[index];
        index++;
    } else {
        hasNext = false;
    }
    return hasNext;
}

private void ensureNext() {
    // we ensure that hasNext has been called before
    // next is called
    hasNext();
    hasNextCalled = false;
}

public Object next() {
    ensureNext();
    return currentMeta;
}

public void remove() {
    ensureNext();
    setMetaClass(currentMeta.getClass(), currentMeta, null);
    currentMeta = null;
}
};
}
}
/*
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 * limitations under the License.
 */
package org.codehaus.groovy.vmplugin;

```

```

import org.codehaus.groovy.ast.*;

/**
 * Interface to access VM version based actions.
 * This interface is for internal use only!
 *
 * @author Jochen Theodorou
 */
public interface VMPlugin {
    void setAdditionalClassInformation(ClassNode c);
    Class[] getPluginDefaultGroovyMethods();
    Class[] getPluginStaticGroovyMethods();
    void configureAnnotation(AnnotationNode an);
    void configureClassNode(CompileUnit compileUnit, ClassNode classNode);
}
/*
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 * limitations under the License.
 */
package org.codehaus.groovy.vmplugin;

/**
 * Factory class to get functionality based on the VM version.
 * The usage of this class is not for public use, only for the
 * runtime.
 * @author Jochen Theodorou
 */
public class VMPluginFactory {

    private static final String JDK5_CLASSNAME_CHECK = "java.lang.annotation.Annotation";
    private static final String JDK6_CLASSNAME_CHECK = "javax.script.ScriptEngine";
    private static final String JDK7_CLASSNAME_CHECK = "java.nio.file.FileRef";

    private static final String JDK5_PLUGIN_NAME = "org.codehaus.groovy.vmplugin.v5.Java5";
    private static final String JDK6_PLUGIN_NAME = "org.codehaus.groovy.vmplugin.v6.Java6";
    private static final String JDK7_PLUGIN_NAME = "org.codehaus.groovy.vmplugin.v7.Java7";
}

```



```

private static VMPlugin plugin;

static {
    plugin = createPlugin(JDK7_CLASSNAME_CHECK, JDK7_PLUGIN_NAME);
    if (plugin == null) {
        // v6 plugin is the same as v5 but with some scripting stuff
        // so check below is good enough for now (can be true for JVM 5)
        plugin = createPlugin(JDK6_CLASSNAME_CHECK, JDK6_PLUGIN_NAME);
    }
    if (plugin == null) {
        plugin = createPlugin(JDK5_CLASSNAME_CHECK, JDK5_PLUGIN_NAME);
    }
}

public static VMPlugin getPlugin() {
    return plugin;
}

private static VMPlugin createPlugin(String classNameCheck, String pluginName) {
    try {
        ClassLoader loader = VMPluginFactory.class.getClassLoader();
        loader.loadClass(classNameCheck);
        return (VMPlugin) loader.loadClass(pluginName).newInstance();
    } catch (Exception ex) {
        return null;
    }
}
}

```

## 8.124 gshell-io 2.4

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# 8.125 guava:jar 12.0 :REL

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 */
```

```
package com.google.common.primitives;
```

```
import static com.google.common.base.Preconditions.checkNotNull;
```

```
import java.util.Collections;
```

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

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

```
import java.util.Set;
```

```
/**
```

```
 * Contains static utility methods pertaining to primitive types and their
```

```
 * corresponding wrapper types.
```

```
 *
```

```
 * @author Kevin Bourrillion
```

```
 * @since 1.0
```

```
 */
```

```
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 an immutable set of all nine primitive types (including { @code
 * void}). Note that a simpler way to test whether a { @code Class} instance
 * is a member of this set is to call { @link Class#isPrimitive}.
 *
 * @since 3.0
 */
```

```
public static Set<Class<?>> allPrimitiveTypes() {
    return PRIMITIVE_TO_WRAPPER_TYPE.keySet();
}
```

```
/**
 * Returns an immutable set of all nine primitive-wrapper types (including
 * { @link Void}).
 *
 * @since 3.0
 */
```

```
public static Set<Class<?>> allWrapperTypes() {
    return WRAPPER_TO_PRIMITIVE_TYPE.keySet();
}
```

```
/**
 * 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(Class<?> type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(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) {
    checkNotNull(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(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) {
    checkNotNull(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(type);
    return (unwrapped == null) ? type : unwrapped;
}
}
}
/**
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```



```

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*/

```

```
package com.google.common.util.concurrent;
```

```
import com.google.common.annotations.Beta;
```

```
import java.util.concurrent.Callable;
```

```
import java.util.concurrent.TimeUnit;
```

```
/**
```

```

* Produces proxies that impose a time limit on method
* calls to the proxied object. For example, to return the value of
* { @code target.someMethod()}, but substitute { @code DEFAULT_VALUE} if this
* method call takes over 50 ms, you can use this code:

```

```
* <pre>
```

```

*   TimeLimiter limiter = . . . ;
*   TargetType proxy = limiter.newProxy(
*     target, TargetType.class, 50, TimeUnit.MILLISECONDS);
*   try {
*     return proxy.someMethod();
*   } catch (UncheckedTimeoutException e) {
*     return DEFAULT_VALUE;
*   }

```

```
* </pre>
```

```
* Please see { @code SimpleTimeLimiterTest} for more usage examples.
```

```
*
```

```
* @author Kevin Bourrillion
```

```
* @since 1.0
```

```
*/
```

```
@Beta
```

```
public interface TimeLimiter {
```

```
/**
```

```

* Returns an instance of { @code interfaceType} that delegates all method
* calls to the { @code target} object, enforcing the specified time limit on
* each call. This time-limited delegation is also performed for calls to
* { @link Object#equals}, { @link Object#hashCode}, and
* { @link Object#toString}.

```

```
* <p>
```

```
* If the target method call finishes before the limit is reached, the return
```

```

* value or exception is propagated to the caller exactly as-is. If, on the
* other hand, the time limit is reached, the proxy will attempt to abort the
* call to the target, and will throw an { @link UncheckedTimeoutException } to
* the caller.
* <p>
* It is important to note that the primary purpose of the proxy object is to
* return control to the caller when the timeout elapses; aborting the target
* method call is of secondary concern. The particular nature and strength
* of the guarantees made by the proxy is implementation-dependent. However,
* it is important that each of the methods on the target object behaves
* appropriately when its thread is interrupted.
*
* @param target the object to proxy
* @param interfaceType the interface you wish the returned proxy to
*   implement
* @param timeoutDuration with timeoutUnit, the maximum length of time that
*   callers are willing to wait on each method call to the proxy
* @param timeoutUnit with timeoutDuration, the maximum length of time that
*   callers are willing to wait on each method call to the proxy
* @return a time-limiting proxy
* @throws IllegalArgumentException if { @code interfaceType } is a regular
*   class, enum, or annotation type, rather than an interface
*/
<T> T newProxy(T target, Class<T> interfaceType,
    long timeoutDuration, TimeUnit timeoutUnit);

/**
* Invokes a specified Callable, timing out after the specified time limit.
* If the target method call finished before the limit is reached, the return
* value or exception is propagated to the caller exactly as-is. If, on the
* other hand, the time limit is reached, we attempt to abort the call to the
* target, and throw an { @link UncheckedTimeoutException } to the caller.
* <p>
* <b>Warning:</b> The future of this method is in doubt. It may be nuked, or
* changed significantly.
*
* @param callable the Callable to execute
* @param timeoutDuration with timeoutUnit, the maximum length of time to wait
* @param timeoutUnit with timeoutDuration, the maximum length of time to wait
* @param interruptible whether to respond to thread interruption by aborting
*   the operation and throwing InterruptedException; if false, the
*   operation is allowed to complete or time out, and the current thread's
*   interrupt status is re-asserted.
* @return the result returned by the Callable
* @throws InterruptedException if { @code interruptible } is true and our
*   thread is interrupted during execution
* @throws UncheckedTimeoutException if the time limit is reached
* @throws Exception

```

```

*/
<T> T callWithTimeout(Callable<T> callable, long timeoutDuration,
    TimeUnit timeoutUnit, boolean interruptible) throws Exception;
}
/*
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*/

```

```
package com.google.common.util.concurrent;
```

```
import static com.google.common.base.Preconditions.checkNotNull;
import static com.google.common.base.Preconditions.checkNotNull;
```

```
import com.google.common.annotations.Beta;
import com.google.common.collect.ObjectArrays;
import com.google.common.collect.Sets;
```

```
import java.lang.reflect.InvocationHandler;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.lang.reflect.Proxy;
import java.util.Set;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.Future;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;
```

```
/**
* A TimeLimiter that runs method calls in the background using an
* {@link ExecutorService}. If the time limit expires for a given method call,
* the thread running the call will be interrupted.
*
* @author Kevin Bourrillion

```

```

* @since 1.0
*/
@Beta
public final class SimpleTimeLimiter implements TimeLimiter {

    private final ExecutorService executor;

    /**
     * Constructs a TimeLimiter instance using the given executor service to
     * execute proxied method calls.
     * <p>
     * <b>Warning:</b> using a bounded executor
     * may be counterproductive! If the thread pool fills up, any time callers
     * spend waiting for a thread may count toward their time limit, and in
     * this case the call may even time out before the target method is ever
     * invoked.
     *
     * @param executor the ExecutorService that will execute the method calls on
     * the target objects; for example, a { @link
     * Executors#newCachedThreadPool()}.
     */
    public SimpleTimeLimiter(ExecutorService executor) {
        this.executor = checkNotNull(executor);
    }

    /**
     * Constructs a TimeLimiter instance using a { @link
     * Executors#newCachedThreadPool()} to execute proxied method calls.
     *
     * <p><b>Warning:</b> using a bounded executor may be counterproductive! If
     * the thread pool fills up, any time callers spend waiting for a thread may
     * count toward their time limit, and in this case the call may even time out
     * before the target method is ever invoked.
     */
    public SimpleTimeLimiter() {
        this(Executors.newCachedThreadPool());
    }

    @Override
    public <T> T newProxy(final T target, Class<T> interfaceType,
        final long timeoutDuration, final TimeUnit timeoutUnit) {
        checkNotNull(target);
        checkNotNull(interfaceType);
        checkNotNull(timeoutUnit);
        checkArgument(timeoutDuration > 0, "bad timeout: " + timeoutDuration);
        checkArgument(interfaceType.isInterface(),
            "interfaceType must be an interface type");
    }
}

```

```

final Set<Method> interruptibleMethods
    = findInterruptibleMethods(interfaceType);

InvocationHandler handler = new InvocationHandler() {
    @Override
    public Object invoke(Object obj, final Method method, final Object[] args)
        throws Throwable {
        Callable<Object> callable = new Callable<Object>() {
            @Override
            public Object call() throws Exception {
                try {
                    return method.invoke(target, args);
                } catch (InvocationTargetException e) {
                    throwCause(e, false);
                    throw new AssertionError("can't get here");
                }
            }
        };
        return callWithTimeout(callable, timeoutDuration, timeoutUnit,
            interruptibleMethods.contains(method));
    }
};
return new Proxy(interfaceType, handler);
}

```

```

// TODO: should this actually throw only ExecutionException?
@Override
public <T> T callWithTimeout(Callable<T> callable, long timeoutDuration,
    TimeUnit timeoutUnit, boolean amInterruptible) throws Exception {
    checkNotNull(callable);
    checkNotNull(timeoutUnit);
    checkArgument(timeoutDuration > 0, "timeout must be positive: %s",
        timeoutDuration);
    Future<T> future = executor.submit(callable);
    try {
        if (amInterruptible) {
            try {
                return future.get(timeoutDuration, timeoutUnit);
            } catch (InterruptedException e) {
                future.cancel(true);
                throw e;
            }
        } else {
            return Uninterruptibles.getUninterruptibly(future,
                timeoutDuration, timeoutUnit);
        }
    } catch (ExecutionException e) {
        throw throwCause(e, true);
    }
}

```

```

    } catch (TimeoutException e) {
        future.cancel(true);
        throw new UncheckedTimeoutException(e);
    }
}

private static Exception throwCause(Exception e, boolean combineStackTraces)
    throws Exception {
    Throwable cause = e.getCause();
    if (cause == null) {
        throw e;
    }
    if (combineStackTraces) {
        StackTraceElement[] combined = ObjectArrays.concat(cause.getStackTrace(),
            e.getStackTrace(), StackTraceElement.class);
        cause.setStackTrace(combined);
    }
    if (cause instanceof Exception) {
        throw (Exception) cause;
    }
    if (cause instanceof Error) {
        throw (Error) cause;
    }
    // The cause is a weird kind of Throwable, so throw the outer exception.
    throw e;
}

private static Set<Method> findInterruptibleMethods(Class<?> interfaceType) {
    Set<Method> set = Sets.newHashSet();
    for (Method m : interfaceType.getMethods()) {
        if (declaresInterruptedEx(m)) {
            set.add(m);
        }
    }
    return set;
}

private static boolean declaresInterruptedEx(Method method) {
    for (Class<?> exType : method.getExceptionTypes()) {
        // debate: == or isAssignableFrom?
        if (exType == InterruptedException.class) {
            return true;
        }
    }
    return false;
}

// TODO: replace with version in common.reflect if and when it's open-sourced

```

```

private static <T> T newProxy(
    Class<T> interfaceType, InvocationHandler handler) {
    Object object = Proxy.newProxyInstance(interfaceType.getClassLoader(),
        new Class<?>[] { interfaceType }, handler);
    return interfaceType.cast(object);
}
}
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 */

package com.google.common.util.concurrent;

import com.google.common.annotations.Beta;

import java.util.concurrent.Callable;
import java.util.concurrent.TimeUnit;

/**
 * A TimeLimiter implementation which actually does not attempt to limit time
 * at all. This may be desirable to use in some unit tests. More importantly,
 * attempting to debug a call which is time-limited would be extremely annoying,
 * so this gives you a time-limiter you can easily swap in for your real
 * time-limiter while you're debugging.
 *
 * @author Kevin Bourrillion
 * @since 1.0
 */
@Beta
public final class FakeTimeLimiter implements TimeLimiter {
    @Override
    public <T> T newProxy(T target, Class<T> interfaceType, long timeoutDuration,
        TimeUnit timeoutUnit) {
        return target; // ha ha
    }
}

```

```

@Override
public <T> T callWithTimeout(Callable<T> callable, long timeoutDuration,
    TimeUnit timeoutUnit, boolean amInterruptible) throws Exception {
    return callable.call(); // fooled you
}
}
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 */

package com.google.common.io;

import com.google.common.annotations.Beta;
import com.google.common.base.Preconditions;

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

/**
 * An InputStream that limits the number of bytes which can be read.
 *
 * @author Charles Fry
 * @since 1.0
 */
@Beta
public final class LimitInputStream extends FilterInputStream {

    private long left;
    private long mark = -1;

    /**
     * Wraps another input stream, limiting the number of bytes which can be read.
     *
     * @param in the input stream to be wrapped
     * @param limit the maximum number of bytes to be read

```



```

*/
public LimitInputStream(InputStream in, long limit) {
    super(in);
    Preconditions.checkNotNull(in);
    Preconditions.checkArgument(limit >= 0, "limit must be non-negative");
    left = limit;
}

@Override public int available() throws IOException {
    return (int) Math.min(in.available(), left);
}

@Override public synchronized void mark(int readlimit) {
    in.mark(readlimit);
    mark = left;
    // it's okay to mark even if mark isn't supported, as reset won't work
}

@Override public int read() throws IOException {
    if (left == 0) {
        return -1;
    }

    int result = in.read();
    if (result != -1) {
        --left;
    }
    return result;
}

@Override public int read(byte[] b, int off, int len) throws IOException {
    if (left == 0) {
        return -1;
    }

    len = (int) Math.min(len, left);
    int result = in.read(b, off, len);
    if (result != -1) {
        left -= result;
    }
    return result;
}

@Override public synchronized void reset() throws IOException {
    if (!in.markSupported()) {
        throw new IOException("Mark not supported");
    }
    if (mark == -1) {

```

```

    throw new IOException("Mark not set");
}

in.reset();
left = mark;
}

@Override public long skip(long n) throws IOException {
    n = Math.min(n, left);
    long skipped = in.skip(n);
    left -= skipped;
    return skipped;
}
}
/*
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 * the License.
 */

package com.google.common.hash;

import com.google.common.annotations.Beta;

import java.nio.charset.Charset;

/**
 * An object which can receive a stream of primitive values.
 *
 * @author Kevin Bourrillion
 * @since 12.0 (in 11.0 as {@code Sink})
 */
@Beta
public interface PrimitiveSink {
    /**
     * Puts a byte into this sink.
     *
     * @param b a byte
     * @return this instance
     */

```

```

*/
PrimitiveSink putByte(byte b);

/**
 * Puts an array of bytes into this sink.
 *
 * @param bytes a byte array
 * @return this instance
 */
PrimitiveSink putBytes(byte[] bytes);

/**
 * Puts a chunk of an array of bytes into this sink. { @code bytes[off]} is the first byte written,
 * { @code bytes[off + len - 1]} is the last.
 *
 * @param bytes a byte array
 * @param off the start offset in the array
 * @param len the number of bytes to write
 * @return this instance
 * @throws IndexOutOfBoundsException if { @code off < 0} or { @code off + len > bytes.length} or
 * { @code len < 0}
 */
PrimitiveSink putBytes(byte[] bytes, int off, int len);

/**
 * Puts a short into this sink.
 */
PrimitiveSink putShort(short s);

/**
 * Puts an int into this sink.
 */
PrimitiveSink putInt(int i);

/**
 * Puts a long into this sink.
 */
PrimitiveSink putLong(long l);

/**
 * Puts a float into this sink.
 */
PrimitiveSink putFloat(float f);

/**
 * Puts a double into this sink.
 */
PrimitiveSink putDouble(double d);

```

```

/**
 * Puts a boolean into this sink.
 */
PrimitiveSink putBoolean(boolean b);

/**
 * Puts a character into this sink.
 */
PrimitiveSink putChar(char c);

/**
 * Puts a string into this sink.
 */
PrimitiveSink putString(CharSequence charSequence);

/**
 * Puts a string into this sink using the given charset.
 */
PrimitiveSink putString(CharSequence charSequence, Charset charset);
}

```

## 8.126 hawtbuf 1.9

### 8.126.1 Available under license :

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## 8.131 hawtdispatch-transport 1.18

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## 8.132 hk2-api 2.1.88

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## 8.133 hk2-locator 2.1.88

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```

```

package org.jvnet.hk2.external.generator;

import javax.inject.Singleton;

import org.glassfish.hk2.api.ClassAnalyzer;
import org.glassfish.hk2.api.DynamicConfigurationService;
import org.glassfish.hk2.api.ServiceLocator;
import org.glassfish.hk2.extension.ServiceLocatorGenerator;
import org.glassfish.hk2.utilities.BuilderHelper;
import org.jvnet.hk2.internal.DefaultClassAnalyzer;
import org.jvnet.hk2.internal.DynamicConfigurationImpl;
import org.jvnet.hk2.internal.DynamicConfigurationServiceImpl;
import org.jvnet.hk2.internal.ServiceLocatorImpl;
import org.jvnet.hk2.internal.Utilities;

/**
 * @author jwells
 *
 */
public class ServiceLocatorGeneratorImpl implements ServiceLocatorGenerator {
    private ServiceLocatorImpl initialize(String name, ServiceLocator parent) {
        if (parent != null && !(parent instanceof ServiceLocatorImpl)) {
            throw new AssertionError("parent must be a " + ServiceLocatorImpl.class.getName() +
                " instead it is a " + parent.getClass().getName());
        }

        ServiceLocatorImpl sli = new ServiceLocatorImpl(name, (ServiceLocatorImpl) parent);

        DynamicConfigurationImpl dci = new DynamicConfigurationImpl(sli);

        // The service locator itself
        dci.bind(Utilities.getLocatorDescriptor(sli));

        // The injection resolver for three thirty
        dci.addActiveDescriptor(Utilities.getThreeThirtyDescriptor(sli));

        // The dynamic configuration utility
        dci.bind(BuilderHelper.link(DynamicConfigurationServiceImpl.class, false).
            to(DynamicConfigurationService.class).
            in(Singleton.class.getName()).
            localOnly().
            build());

        dci.bind(BuilderHelper.createConstantDescriptor(
            new DefaultClassAnalyzer(sli)));

        dci.commit();
    }
}

```



```

    return sli;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.extension.ServiceLocatorGenerator#create(java.lang.String,
org.glassfish.hk2.api.Module)
 */
@Override
public ServiceLocator create(String name, ServiceLocator parent) {
    ServiceLocatorImpl retVal = initialize(name, parent);

    return retVal;
}

}
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```

```
*/
```

```
package org.jvnet.hk2.internal;
```

```
import org.glassfish.hk2.api.Descriptor;
import org.glassfish.hk2.api.ErrorInformation;
import org.glassfish.hk2.api.ErrorType;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.MultiException;
```

```
/**
```

```
 * @author jwells
```

```
 *
```

```
*/
```

```
public class ErrorInformationImpl implements ErrorInformation {
    private final ErrorType errorType;
    private final Descriptor descriptor;
    private final Injectee injectee;
    private final MultiException exception;
```

```
    /* package */ ErrorInformationImpl(ErrorType errorType,
        Descriptor descriptor,
        Injectee injectee,
        MultiException exception) {
        this.errorType = errorType;
        this.descriptor = descriptor;
        this.injectee = injectee;
        this.exception = exception;
    }
```

```
    /* (non-Javadoc)
```

```
     * @see org.glassfish.hk2.api.ErrorInformation#getErrorType()
```

```
     */
```

```
    @Override
```

```
    public ErrorType getErrorType() {
        return errorType;
    }
```

```
    /* (non-Javadoc)
```

```
     * @see org.glassfish.hk2.api.ErrorInformation#getDescriptor()
```

```
     */
```

```
    @Override
```

```
    public Descriptor getDescriptor() {
        return descriptor;
    }
```

```

    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.ErrorInformation#getInjectee()
     */
    @Override
    public Injectee getInjectee() {
        return injectee;
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.ErrorInformation#getAssociatedException()
     */
    @Override
    public MultiException getAssociatedException() {
        return exception;
    }

    public String toString() {
        return "ErrorInformation(" + errorType + "," +
            descriptor + "," +
            injectee + "," +
            exception + "," +
            System.identityHashCode(this) + ")";
    }
}

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*/
package org.jvnet.hk2.internal;

import java.util.LinkedList;
import java.util.List;

import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.Context;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.PerLookup;
import org.glassfish.hk2.api.ServiceHandle;
import org.glassfish.hk2.utilities.reflection.ReflectionHelper;

/**
 * This handle does the underlying work of getting the service. Only
 * at the time that the getService call is made is the service gotten
 * from the context. Once a service has been gotten, it is not looked
 * up again.
 *
 * @author jwells
 * @param <T> The type of service to create
 */
public class ServiceHandleImpl<T> implements ServiceHandle<T> {
    private ActiveDescriptor<T> root;
    private final ServiceLocatorImpl locator;
    private final Injectee injectee;
    private final Object lock = new Object();

    private boolean serviceDestroyed = false;

```

```

private boolean serviceSet = false;
private T service;

private final List<ServiceHandleImpl<?>> subHandles = new LinkedList<ServiceHandleImpl<?>>();

/* package */ ServiceHandleImpl(ServiceLocatorImpl locator, ActiveDescriptor<T> root, Injectee injectee) {
    this.root = root;
    this.locator = locator;
    this.injectee = injectee;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceHandle#getService()
 */
@Override
public T getService() {
    synchronized (lock) {
        if (serviceDestroyed) throw new IllegalStateException("Service has been disposed");

        if (serviceSet) return service;

        Class<?> requiredClass = (injectee == null) ? null :
ReflectionHelper.getRawClass(injectee.getRequiredType());

        service = Utilities.createService(root, injectee, locator, this, requiredClass);

        serviceSet = true;

        return service;
    }
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceHandle#getActiveDescriptor()
 */
@Override
public ActiveDescriptor<T> getActiveDescriptor() {
    return root;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceHandle#isActive()
 */
@Override
public boolean isActive() {
    // No lock needed, nothing changes state
    if (serviceDestroyed) return false;
    if (serviceSet) return true;
}

```

```

try {
    Context<?> context = locator.resolveContext(root.getScopeAnnotation());
    return context.containsKey(root);
}
catch (IllegalStateException ise) {
    return false;
}
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceHandle#destroy()
 */
@Override
public void destroy() {
    boolean localServiceSet;
    boolean serviceActive;

    synchronized (lock) {
        serviceActive = isActive();

        if (serviceDestroyed) return;
        serviceDestroyed = true;

        localServiceSet = serviceSet;
    }

    if (root.getScopeAnnotation().equals(PerLookup.class)) {
        if (localServiceSet) {
            // Otherwise it is the scope responsible for the lifecycle
            root.dispose(service);
        }
    }
    else if (serviceActive) {
        Context<?> context;
        try {
            context = locator.resolveContext(root.getScopeAnnotation());
        }
        catch (Throwable th) {
            return;
        }

        context.destroyOne(root);
    }

    for (ServiceHandleImpl<?> subHandle : subHandles) {
        subHandle.destroy();
    }
}

```

```

}

/**
 * Add a sub handle to this for proper destruction
 *
 * @param subHandle A handle to add for proper destruction
 */
public void addSubHandle(ServiceHandleImpl<?> subHandle) {
    subHandles.add(subHandle);
}

public String toString() {
    return "ServiceHandle(" + root + "," + System.identityHashCode(this) + ")";
}

}

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package org.jvnet.hk2.internal;

import javax.inject.Inject;
import javax.inject.Singleton;

import org.glassfish.hk2.api.DynamicConfiguration;
import org.glassfish.hk2.api.DynamicConfigurationService;
import org.glassfish.hk2.api.ServiceLocator;

/**
 * @author jwells
 */
@Singleton
public class DynamicConfigurationServiceImpl implements
    DynamicConfigurationService {
    private final ServiceLocatorImpl locator;

    @Inject
    private DynamicConfigurationServiceImpl(ServiceLocator locator) {
        this.locator = (ServiceLocatorImpl) locator;
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.DynamicConfigurationService#createDynamicConfiguration()
     */
    @Override
    public DynamicConfiguration createDynamicConfiguration() {
        return new DynamicConfigurationImpl(locator);
    }
}

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- \*/

```
package org.jvnet.hk2.internal;
```

```
import java.lang.annotation.Annotation;
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashSet;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Set;
```

```
import org.glassfish.hk2.api.IterableProvider;
import org.glassfish.hk2.api.ServiceHandle;
import org.glassfish.hk2.api.Unqualified;
import org.glassfish.hk2.utilities.NamedImpl;
```

```

import org.glassfish.hk2.utilities.reflection.Pretty;

/**
 * @author jwells
 *
 * @param <T> The type for this provider
 */
public class IterableProviderImpl<T> implements IterableProvider<T> {
    private final ServiceLocatorImpl locator;
    private final Type requiredType;
    private final Set<Annotation> requiredQualifiers;
    private final Unqualified unqualified;

    /* package */ IterableProviderImpl(
        ServiceLocatorImpl locator,
        Type requiredType,
        Set<Annotation> requiredQualifiers,
        Unqualified unqualified) {
        this.locator = locator;
        this.requiredType = requiredType;
        this.requiredQualifiers = Collections.unmodifiableSet(requiredQualifiers);
        this.unqualified = unqualified;
    }

    /* (non-Javadoc)
     * @see javax.inject.Provider#get()
     */
    @SuppressWarnings("unchecked")
    @Override
    public T get() {
        // Must do this in this way to ensure that the generated item is properly associated with the root
        if (unqualified == null) {
            return (T) locator.getService(requiredType,
                requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]));
        }

        return (T) locator.getUnqualifiedService(requiredType, unqualified,
            requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]));
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.IterableProvider#getHandle()
     */
    @SuppressWarnings("unchecked")
    @Override
    public ServiceHandle<T> getHandle() {
        if (unqualified == null) {
            return (ServiceHandle<T>) locator.getServiceHandle(requiredType,

```

```

        requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
    }

    return (ServiceHandle<T>) locator.getUnqualifiedServiceHandle(requiredType, unqualified,
        requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]);
    }

    /* (non-Javadoc)
     * @see java.lang.Iterable#iterator()
     */
    @Override
    public Iterator<T> iterator() {
        List<ServiceHandle<T>> handles;
        if (unqualified == null) {
            handles = Utilities.<List<ServiceHandle<T>>>cast(locator.getAllServiceHandles(requiredType,
                requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()])));
        }
        else {
            handles = Utilities.<List<ServiceHandle<T>>>cast(locator.getAllUnqualifiedServiceHandles(requiredType,
                unqualified, requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()])));
        }

        return new MyIterator<T>(handles);
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.IterableProvider#setSize()
     */
    @Override
    public int getSize() {
        if (unqualified == null) {
            return locator.getAllServiceHandles(requiredType,
                requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()])).size();
        }

        return locator.getAllUnqualifiedServiceHandles(requiredType, unqualified,
            requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()])).size();
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.IterableProvider#named(java.lang.String)
     */
    @Override
    public IterableProvider<T> named(String name) {
        return qualifiedWith(new NamedImpl(name));
    }
}

```

```

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.IterableProvider#ofType(java.lang.reflect.Type)
 */
@Override
public <U> IterableProvider<U> ofType(Type type) {
    return new IterableProviderImpl<U>(locator, type, requiredQualifiers, unqualified);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.IterableProvider#qualifiedWith(java.lang.annotation.Annotation[])
 */
@Override
public IterableProvider<T> qualifiedWith(Annotation... qualifiers) {
    HashSet<Annotation> moreAnnotations = new HashSet<Annotation>(requiredQualifiers);
    for (Annotation qualifier : qualifiers) {
        moreAnnotations.add(qualifier);
    }

    return new IterableProviderImpl<T>(locator, requiredType, moreAnnotations, unqualified);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.IterableProvider#handleIterator()
 */
@Override
public Iterable<ServiceHandle<T>> handleIterator() {
    List<ServiceHandle<T>> handles =
Utilities.<List<ServiceHandle<T>>>cast(locator.getAllServiceHandles(requiredType,
    requiredQualifiers.toArray(new Annotation[requiredQualifiers.size()]));

    return new HandleIterable<T>(handles);
}

private static class MyIterator<U> implements Iterator<U> {
    private final LinkedList<ServiceHandle<U>> handles;

    private MyIterator(List<ServiceHandle<U>> handles) {
        this.handles = new LinkedList<ServiceHandle<U>>(handles);
    }

/* (non-Javadoc)
 * @see java.util.Iterator#hasNext()
 */
@Override
public boolean hasNext() {
    return !handles.isEmpty();
}

```

```

/* (non-Javadoc)
 * @see java.util.Iterator#next()
 */
@Override
public U next() {
    ServiceHandle<U> nextHandle = handles.removeFirst();

    return nextHandle.getService();
}

/* (non-Javadoc)
 * @see java.util.Iterator#remove()
 */
@Override
public void remove() {
    throw new UnsupportedOperationException();
}
}

private static class HandleIterable<U> implements Iterable<ServiceHandle<U>> {
    private final List<ServiceHandle<U>> handles;

    private HandleIterable(List<ServiceHandle<U>> handles) {
        this.handles = new LinkedList<ServiceHandle<U>>(handles);
    }

    /* (non-Javadoc)
     * @see java.lang.Iterable#iterator()
     */
    @Override
    public Iterator<ServiceHandle<U>> iterator() {
        return new MyHandleIterator<U>(handles);
    }
}

private static class MyHandleIterator<U> implements Iterator<ServiceHandle<U>> {
    private final LinkedList<ServiceHandle<U>> handles;

    private MyHandleIterator(List<ServiceHandle<U>> handles) {
        this.handles = new LinkedList<ServiceHandle<U>>(handles);
    }

    /* (non-Javadoc)
     * @see java.util.Iterator#hasNext()
     */

```

```

@Override
public boolean hasNext() {
    return !handles.isEmpty();
}

/* (non-Javadoc)
 * @see java.util.Iterator#next()
 */
@Override
public ServiceHandle<U> next() {
    return handles.removeFirst();
}

/* (non-Javadoc)
 * @see java.util.Iterator#remove()
 */
@Override
public void remove() {
    throw new UnsupportedOperationException();
}

}

public String toString() {
    return "IterableProviderImpl(" + Pretty.type(requiredType) + "," + Pretty.collection(requiredQualifiers) + "," +
        System.identityHashCode(this) + ")";
}

}

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\*/

```
package org.jvnet.hk2.internal;
```

```
import java.util.Collections;
```

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

```
import org.glassfish.hk2.api.ActiveDescriptor;
```

```
import org.glassfish.hk2.api.Injectee;
```

```
import org.glassfish.hk2.api.InstanceLifecycleEvent;
```

```
import org.glassfish.hk2.api.InstanceLifecycleEventType;
```

```
/**
```

```
 * @author jwells
```

```
 *
```

```
*/
```

```
public class InstanceLifecycleEventImpl implements InstanceLifecycleEvent {
```

```
    private final InstanceLifecycleEventType eventType;
```

```
    private final ActiveDescriptor<?> descriptor;
```

```
    private final Object lifecycleObject;
```

```
    private final Map<Injectee, Object> knownInjectees;
```

```
    /* package */ InstanceLifecycleEventImpl(InstanceLifecycleEventType eventType,
```

```
        Object lifecycleObject, Map<Injectee, Object> knownInjectees, ActiveDescriptor<?> descriptor) {
```

```
        this.eventType = eventType;
```

```

    this.lifecycleObject = lifecycleObject;
    if (knownInjectees == null) {
        this.knownInjectees = null;
    }
    else {
        this.knownInjectees = Collections.unmodifiableMap(knownInjectees);
    }
    this.descriptor = descriptor;
}

/* package */ InstanceLifecycleEventImpl(InstanceLifecycleEventType eventType,
    Object lifecycleObject, ActiveDescriptor<?> descriptor) {
    this(eventType, lifecycleObject, null, descriptor);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getEventType()
 */
@Override
public InstanceLifecycleEventType getEventType() {
    return eventType;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getActiveDescriptor()
 */
@Override
public ActiveDescriptor<?> getActiveDescriptor() {
    return descriptor;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getLifecycleObject()
 */
@Override
public Object getLifecycleObject() {
    return lifecycleObject;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.InstanceLifecycleEvent#getKnownInjectees()
 */
@Override
public Map<Injectee, Object> getKnownInjectees() {
    return knownInjectees;
}
}

```



```

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 */
package org.jvnet.hk2.internal;

import java.lang.annotation.Annotation;
import java.lang.reflect.ParameterizedType;
import java.lang.reflect.Type;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.util.Collection;
import java.util.Collections;

```

```
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.SortedSet;
import java.util.StringTokenizer;
import java.util.TreeSet;
import java.util.WeakHashMap;

import javax.inject.Named;
import javax.inject.Provider;
import javax.inject.Singleton;

import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.ClassAnalyzer;
import org.glassfish.hk2.api.Context;
import org.glassfish.hk2.api.Descriptor;
import org.glassfish.hk2.api.DescriptorVisibility;
import org.glassfish.hk2.api.ErrorService;
import org.glassfish.hk2.api.Filter;
import org.glassfish.hk2.api.HK2Loader;
import org.glassfish.hk2.api.IndexedFilter;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.InstanceLifecycleListener;
import org.glassfish.hk2.api.JustInTimeInjectionResolver;
import org.glassfish.hk2.api.Operation;
import org.glassfish.hk2.api.InjectionResolver;
import org.glassfish.hk2.api.IterableProvider;
import org.glassfish.hk2.api.MultiException;
import org.glassfish.hk2.api.PerLookup;
import org.glassfish.hk2.api.PostConstruct;
import org.glassfish.hk2.api.PreDestroy;
import org.glassfish.hk2.api.ServiceHandle;
import org.glassfish.hk2.api.ServiceLocator;
import org.glassfish.hk2.api.ServiceLocatorState;
import org.glassfish.hk2.api.Unqualified;
import org.glassfish.hk2.api.ValidationService;
import org.glassfish.hk2.api.Validator;
import org.glassfish.hk2.utilities.BuilderHelper;
import org.glassfish.hk2.utilities.cache.CacheEntry;
import org.glassfish.hk2.utilities.cache.LRUCache;
import org.glassfish.hk2.utilities.InjecteeImpl;
import org.glassfish.hk2.utilities.reflection.Logger;
import org.glassfish.hk2.utilities.reflection.ParameterizedTypeImpl;
import org.glassfish.hk2.utilities.reflection.ReflectionHelper;
```

```

/**
 * @author jwells
 *
 */
public class ServiceLocatorImpl implements ServiceLocator {
    private final static String BIND_TRACING_PATTERN_PROPERTY =
"org.jvnet.hk2.properties.bind.tracing.pattern";
    private final static String BIND_TRACING_PATTERN;
    private final static String BIND_TRACING_STACKS_PROPERTY =
"org.jvnet.hk2.properties.bind.tracing.stacks";
    private final static boolean BIND_TRACING_STACKS;
    static {
        BIND_TRACING_PATTERN = AccessController.doPrivileged(new PrivilegedAction<String>() {

            @Override
            public String run() {
                return System.getProperty(BIND_TRACING_PATTERN_PROPERTY);
            }

        });

        BIND_TRACING_STACKS = AccessController.doPrivileged(new PrivilegedAction<Boolean>() {

            @Override
            public Boolean run() {
                return Boolean.parseBoolean(System.getProperty(BIND_TRACING_STACKS_PROPERTY, "false"));
            }

        });

        if (BIND_TRACING_PATTERN != null) {
            Logger.getLogger().debug("HK2 will trace binds and unbinds of " + BIND_TRACING_PATTERN +
                " with stacks " + BIND_TRACING_STACKS);
        }
    }

    private final static int CACHE_SIZE = 20000;
    private final static Object sLock = new Object();
    private static long currentLocatorId = 0L;

    /* package */ final static DescriptorComparator DESCRIPTOR_COMPARATOR = new DescriptorComparator();
    private final static ServiceHandleComparator HANDLE_COMPARATOR = new ServiceHandleComparator();

    private final Object lock = new Object();
    private long nextServiceId = 0L;
    private final String locatorName;
    private final long id;

```

```

private final ServiceLocatorImpl parent;

private final IndexedListData allDescriptors = new IndexedListData();
private final HashMap<String, IndexedListData> descriptorsByAdvertisedContract =
    new HashMap<String, IndexedListData>();
private final HashMap<String, IndexedListData> descriptorsByName =
    new HashMap<String, IndexedListData>();
private final Context<Singleton> singletonContext = new SingletonContext(this);
private final Context<PerLookup> perLookupContext = new PerLookupContext();
private final LinkedHashSet<ValidationService> allValidators =
    new LinkedHashSet<ValidationService>();
private final LinkedList<ErrorService> errorHandlers =
    new LinkedList<ErrorService>();
private final HashMap<Class<? extends Annotation>, Context<?>> contextCache =
    new HashMap<Class<? extends Annotation>, Context<?>>();

// Fields needed for caching
private final LRUCache<CacheKey, NarrowResults> cache = LRUCache.createCache(CACHE_SIZE);
private final HashMap<String, List<CacheEntry>> cacheEntries = new HashMap<String, List<CacheEntry>>();
private final Map<ServiceLocatorImpl, ServiceLocatorImpl> children =
    new WeakHashMap<ServiceLocatorImpl, ServiceLocatorImpl>(); // Must be Weak for throw away children

private final Object classAnalyzerLock = new Object();
private final HashMap<String, ClassAnalyzer> classAnalyzers =
    new HashMap<String, ClassAnalyzer>();
private String defaultClassAnalyzer = ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME;

private final Object resolversLock = new Object();
private HashMap<Class<? extends Annotation>, InjectionResolver<?>> allResolvers =
    new HashMap<Class<? extends Annotation>, InjectionResolver<?>>();

private ServiceLocatorState state = ServiceLocatorState.RUNNING;

/**
 * Called by the Generator, and hence must be a public method
 *
 * @param name The name of this locator
 * @param parent The parent of this locator (may be null)
 */
public ServiceLocatorImpl(String name, ServiceLocatorImpl parent) {
    locatorName = name;
    this.parent = parent;
    if (parent != null) {
        parent.addChild(this);
    }

    synchronized (sLock) {
        id = currentLocatorId++;
    }
}

```

```

    }

    Logger.getLogger().debug("Created ServiceLocator " + this);
}

/**
 * Must be called under lock
 *
 * @param descriptor The descriptor to validate
 * @param onBehalfOf The fella who is being validated (or null)
 * @return true if every validator returned true
 */
private boolean validate(SystemDescriptor<?> descriptor, Injectee onBehalfOf, Filter filter) {
    for (ValidationService vs : getAllValidators()) {
        if (!descriptor.isValidating(vs)) continue;

        if (!vs.getValidator().validate(new ValidationInformationImpl(
            Operation.LOOKUP, descriptor, onBehalfOf, filter))) {
            return false;
        }
    }
}

return true;
}

private List<SystemDescriptor<?>> getDescriptors(Filter filter,
    Injectee onBehalfOf,
    boolean getParents,
    boolean doValidation,
    boolean getLocals) {
    if (filter == null) throw new IllegalArgumentException("filter is null");

    LinkedList<SystemDescriptor<?>> retVal;
    synchronized (lock) {
        Collection<SystemDescriptor<?>> sortMeOut;
        if (filter instanceof IndexedFilter) {
            IndexedFilter df = (IndexedFilter) filter;

            if (df.getName() != null) {
                Collection<SystemDescriptor<?>> scopedByName;

                String name = df.getName();

                IndexedListData ild = descriptorsByName.get(name);
                scopedByName = (ild == null) ? null : ild.getSortedList();
                if (scopedByName == null) {
                    scopedByName = Collections.emptyList();
                }
            }
        }
    }
}

```

```

if (df.getAdvertisedContract() != null) {
    sortMeOut = new LinkedList<SystemDescriptor<?>>();

    for (SystemDescriptor<?> candidate : scopedByName) {
        if (candidate.getAdvertisedContracts().contains(df.getAdvertisedContract())) {
            sortMeOut.add(candidate);
        }
    }
}
else {
    sortMeOut = scopedByName;
}
}
else if (df.getAdvertisedContract() != null) {
    String advertisedContract = df.getAdvertisedContract();

    IndexedListData ild = descriptorsByAdvertisedContract.get(advertisedContract);
    sortMeOut = (ild == null) ? null : ild.getSortedList();
    if (sortMeOut == null) {
        sortMeOut = Collections.emptyList();
    }
}
else {
    sortMeOut = allDescriptors.getSortedList();
}
}
else {
    sortMeOut = allDescriptors.getSortedList();
}

retVal = new LinkedList<SystemDescriptor<?>>();

for (SystemDescriptor<?> candidate : sortMeOut) {
    if (!getLocals && DescriptorVisibility.LOCAL.equals(candidate.getDescriptorVisibility())) {
        continue;
    }

    if (doValidation && !validate(candidate, onBehalfOf, filter)) continue;

    if (filter.matches(candidate)) {
        retVal.add(candidate);
    }
}
}

```

// Must be done outside of lock, or there can be a deadlock between child and parent

```

        if (getParents && parent != null) {
            TreeSet<SystemDescriptor<?>> sorter = new
TreeSet<SystemDescriptor<?>>(DESCRIPTOR_COMPARATOR);

            sorter.addAll(retVal);
            sorter.addAll(parent.getDescriptors(filter, onBehalfOf, getParents, doValidation, false));

            retVal.clear();

            retVal.addAll(sorter);
        }

        return retVal;
    }

private List<ActiveDescriptor<?>> protectedGetDescriptors(final Filter filter) {
    return AccessController.doPrivileged(new PrivilegedAction<List<ActiveDescriptor<?>>>() {

        @Override
        public List<ActiveDescriptor<?>> run() {
            return getDescriptors(filter);
        }

    });
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getDescriptors(org.glassfish.hk2.api.Filter)
 */
@Override
public List<ActiveDescriptor<?>> getDescriptors(Filter filter) {
    checkState();

    return Utilities.cast(getDescriptors(filter, null, true, true, true));
}

public ActiveDescriptor<?> getBestDescriptor(Filter filter) {
    if (filter == null) throw new IllegalArgumentException("filter is null");
    checkState();

    List<ActiveDescriptor<?>> sorted = getDescriptors(filter);

    return Utilities.getFirstThingInList(sorted);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#reifyDescriptor(org.glassfish.hk2.api.Descriptor)

```

```

*/
@Override
public ActiveDescriptor<?> reifyDescriptor(Descriptor descriptor, Injectee injectee)
    throws MultiException {
    checkState();
    if (descriptor == null) throw new IllegalArgumentException();

    if (!(descriptor instanceof ActiveDescriptor)) {
        SystemDescriptor<?> sd = new SystemDescriptor<Object>(descriptor, true, this, new
Long(getNextServiceId()));

        Class<?> implClass = loadClass(descriptor, injectee);

        Collector collector = new Collector();
        sd.reify(implClass, collector);

        collector.throwIfErrors();

        return sd;
    }

    // Descriptor is an active descriptor
    ActiveDescriptor<?> active = (ActiveDescriptor<?>) descriptor;
    if (active.isReified()) return active;

    SystemDescriptor<?> sd;
    if (active instanceof SystemDescriptor) {
        sd = (SystemDescriptor<?>) active;
    }
    else {
        sd = new SystemDescriptor<Object>(descriptor, true, this, new Long(getNextServiceId()));
    }

    Class<?> implClass = sd.getPreAnalyzedClass();
    if (implClass == null) {
        implClass = loadClass(descriptor, injectee);
    }

    Collector collector = new Collector();

    sd.reify(implClass, collector);

    collector.throwIfErrors();

    return sd;
}

/* (non-Javadoc)

```



```

* @see org.glassfish.hk2.api.ServiceLocator#reifyDescriptor(org.glassfish.hk2.api.Descriptor)
*/
@Override
public ActiveDescriptor<?> reifyDescriptor(Descriptor descriptor)
    throws MultiException {
    checkState();
    return reifyDescriptor(descriptor, null);
}

private ActiveDescriptor<?> secondChanceResolve(Injectee injectee) {
    // OK, lets do the second chance protocol
    Collector collector = new Collector();

    List<ServiceHandle<JustInTimeInjectionResolver>> jitResolvers =
        Utilities.<List<ServiceHandle<JustInTimeInjectionResolver>>>cast(
            getAllServiceHandles(JustInTimeInjectionResolver.class));

    try {
        boolean modified = false;
        boolean aJITFailed = false;
        for (ServiceHandle<JustInTimeInjectionResolver> handle : jitResolvers) {
            if ((injectee.getInjecteeClass() != null) && (
                injectee.getInjecteeClass().getName().equals(
                    handle.getActiveDescriptor().getImplementation())) {
                // Do not self second-chance
                continue;
            }

            JustInTimeInjectionResolver jitResolver;
            try {
                jitResolver = handle.getService();
            }
            catch (MultiException me) {
                // We just ignore this for now, it may be resolvable later
                Logger.getLogger().debug(handle.toString(), "secondChanceResolver", me);
                continue;
            }

            boolean jitModified = false;
            try {
                jitModified = jitResolver.justInTimeResolution(injectee);
            }
            catch (Throwable th) {
                collector.addThrowable(th);
                aJITFailed = true;
            }

            modified = jitModified || modified;
        }
    }
}

```

```

    }

    if (aJITFailed) {
        collector.throwIfErrors();
    }

    if (!modified) {
        return null;
    }

    // Try again
    return internalGetInjecteeDescriptor(injectee, false);
}

finally {
    for (ServiceHandle<JustInTimeInjectionResolver> jitResolver : jitResolvers) {
        if (jitResolver.getActiveDescriptor().getScope() == null ||
            PerLookup.class.getName().equals(jitResolver.getActiveDescriptor().getScope())) {
            // Destroy any per-lookup JIT resolver
            jitResolver.destroy();
        }
    }
}
}

private ActiveDescriptor<?> internalGetInjecteeDescriptor(Injectee injectee, boolean firstTime) {
    if (injectee == null) throw new IllegalArgumentException();
    checkState();

    Type requiredType = injectee.getRequiredType();
    Class<?> rawType = ReflectionHelper.getRawClass(requiredType);
    if (rawType == null) {
        throw new MultiException(new IllegalArgumentException(
            "Invalid injectee with required type of " + injectee.getRequiredType() + " passed to
getInjecteeDescriptor"));
    }

    if (Provider.class.equals(rawType) || IterableProvider.class.equals(rawType) ) {
        IterableProviderImpl<?> value = new IterableProviderImpl<Object>(this,
            (Utilities.getFirstTypeArgument(requiredType)),
            injectee.getRequiredQualifiers(),
            injectee.getUnqualified());

        return new ConstantActiveDescriptor<Object>(value, id);
    }

    Set<Annotation> qualifiersAsSet = injectee.getRequiredQualifiers();
    String name = Utilities.getNameFromAllQualifiers(qualifiersAsSet, injectee.getParent());

```

```

Annotation qualifiers[] = qualifiersAsSet.toArray(new Annotation[qualifiersAsSet.size()]);

ActiveDescriptor<?> retVal = internalGetDescriptor(injectee, requiredType, name, injectee.getUnqualified(),
qualifiers);
    if (retVal == null && firstTime) {
        return secondChanceResolve(injectee);
    }
    return retVal;

}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getInjecteeDescriptor(org.glassfish.hk2.api.Injectee)
 */
@Override
public ActiveDescriptor<?> getInjecteeDescriptor(Injectee injectee)
    throws MultiException {
    return internalGetInjecteeDescriptor(injectee, true);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(org.glassfish.hk2.api.ActiveDescriptor)
 */
@Override
public <T> ServiceHandle<T> getServiceHandle(
    ActiveDescriptor<T> activeDescriptor,
    Injectee injectee) throws MultiException {
    if (activeDescriptor == null) throw new IllegalArgumentException();
    checkState();

    return new ServiceHandleImpl<T>(this, activeDescriptor, injectee);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(org.glassfish.hk2.api.ActiveDescriptor)
 */
@Override
public <T> ServiceHandle<T> getServiceHandle(
    ActiveDescriptor<T> activeDescriptor) throws MultiException {
    return internalGetServiceHandle(activeDescriptor, null);
}

private <T> ServiceHandle<T> internalGetServiceHandle(
    ActiveDescriptor<T> activeDescriptor,
    Type requestedType) {
    if (activeDescriptor == null) throw new IllegalArgumentException();
    checkState();

```

```

    if (requestedType == null) {
        return getServiceHandle(activeDescriptor, null);
    }

    return getServiceHandle(activeDescriptor, new InjecteeImpl(requestedType));
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getService(org.glassfish.hk2.api.ActiveDescriptor,
org.glassfish.hk2.api.ServiceHandle)
 */
@Override @Deprecated
public <T> T getService(ActiveDescriptor<T> activeDescriptor,
    ServiceHandle<?> root) throws MultiException {
    return getService(activeDescriptor, root, null);
}

@Override
public <T> T getService(ActiveDescriptor<T> activeDescriptor,
    ServiceHandle<?> root,
    Injectee originalRequest) throws MultiException {
    checkState();

    Type contractOrImpl = (originalRequest == null) ? null : originalRequest.getRequiredType();
    Class<?> rawClass = ReflectionHelper.getRawClass(contractOrImpl);

    if (root == null) {
        return Utilities.createService(activeDescriptor, null, this, null, rawClass);
    }

    ServiceHandle<T> subHandle = internalGetServiceHandle(activeDescriptor, contractOrImpl);

    if (PerLookup.class.equals(activeDescriptor.getScopeAnnotation())) {
        ((ServiceHandleImpl<?>) root).addSubHandle((ServiceHandleImpl<T>) subHandle);
    }

    return subHandle.getService();
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type)
 */
@Override
public <T> T getService(Class<T> contractOrImpl, Annotation... qualifiers) throws MultiException {
    return getService((Type) contractOrImpl, qualifiers);
}

/* (non-Javadoc)

```

```

* @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type)
*/
@Override
public <T> T getService(Type contractOrImpl, Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, null, qualifiers);
    if (ad == null) return null;

    T retVal = Utilities.createService(ad, null, this, null, ReflectionHelper.getRawClass(contractOrImpl));

    return retVal;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type, java.lang.String)
*/
@Override
public <T> T getService(Class<T> contractOrImpl, String name, Annotation... qualifiers)
    throws MultiException {
    return internalGetService(contractOrImpl, name, qualifiers);
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.ServiceLocator#getService(java.lang.reflect.Type, java.lang.String)
*/
@Override
public <T> T getService(Type contractOrImpl, String name, Annotation... qualifiers)
    throws MultiException {
    return internalGetService(contractOrImpl, name, qualifiers);
}

private <T> T internalGetService(Type contractOrImpl, String name, Annotation... qualifiers) {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, name, null, qualifiers);
    if (ad == null) return null;

    T retVal = Utilities.createService(ad, null, this, null, ReflectionHelper.getRawClass(contractOrImpl));

    return retVal;
}

/* package */ <T> T getUnqualifiedService(Type contractOrImpl, Unqualified unqualified, Annotation...
qualifiers) throws MultiException {
    checkState();

```

```

ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, unqualified, qualifiers);
if (ad == null) return null;

T retVal = Utilities.createService(ad, null, this, null, ReflectionHelper.getRawClass(contractOrImpl));

return retVal;
}

private <T> List<T> protectedGetAllServices(final Type contractOrImpl,
    final Annotation... qualifiers) {
    return AccessController.doPrivileged(new PrivilegedAction<List<T>>() {

        @Override
        public List<T> run() {
            return getAllServices(contractOrImpl, qualifiers);
        }
    });
}

@Override
public <T> List<T> getAllServices(Class<T> contractOrImpl, Annotation... qualifiers)
    throws MultiException {
    return getAllServices((Type) contractOrImpl, qualifiers);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServices(java.lang.reflect.Type)
 */
@Override
@SuppressWarnings("unchecked")
public <T> List<T> getAllServices(Type contractOrImpl, Annotation... qualifiers)
    throws MultiException {
    checkState();

    List<T> retVal = (List<T>) internalGetAllServiceHandles(
        contractOrImpl,
        null,
        false,
        qualifiers
    );

    return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServices(java.lang.annotation.Annotation,
 java.lang.annotation.Annotation[])
 */

```

```

@SuppressWarnings("unchecked")
@Override
public <T> List<T> getAllServices(Annotation qualifier,
    Annotation... qualifiers) throws MultiException {
    checkState();

    List<ServiceHandle<?>> services = getAllServiceHandles(qualifier, qualifiers);

    List<T> retVal = new LinkedList<T>();
    for (ServiceHandle<?> service : services) {
        retVal.add((T) service.getService());
    }

    return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServices(org.glassfish.hk2.api.Filter)
 */
@Override
public List<?> getAllServices(Filter searchCriteria)
    throws MultiException {
    checkState();

    List<ServiceHandle<?>> handleSet = getAllServiceHandles(searchCriteria);

    List<Object> retVal = new LinkedList<Object>();
    for (ServiceHandle<?> handle : handleSet) {
        retVal.add(handle.getService());
    }

    return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getName()
 */
@Override
public String getName() {
    return locatorName;
}

@Override
public ServiceLocatorState getState() {
    synchronized(lock) {
        return state;
    }
}
}

```

```

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#shutdown()
 */
@Override
public void shutdown() {
    synchronized (lock) {
        if (state.equals(ServiceLocatorState.SHUTDOWN)) return;

        if (parent != null) {
            parent.removeChild(this);
        }

        List<ServiceHandle<?>> handles =
getAllServiceHandles(BuilderHelper.createContractFilter(Context.class.getName()));

        for (ServiceHandle<?> handle : handles){
            if (handle.isActive()) {
                Context<?> context = (Context<?>) handle.getService();
                context.shutdown();
            }
        }

        singletonContext.shutdown();

        state = ServiceLocatorState.SHUTDOWN;

        allDescriptors.clear();
        descriptorsByAdvertisedContract.clear();
        descriptorsByName.clear();
        synchronized (resolversLock) {
            allResolvers.clear();
        }
        allValidators.clear();
        errorHandlers.clear();
        cache.releaseCache();
        cacheEntries.clear();
        synchronized (children) {
            children.clear();
        }

        Logger.getLogger().debug("Shutdown ServiceLocator " + this);
    }
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#create(java.lang.Class)

```



```

*/
@Override
public <T> T create(Class<T> createMe) {
    return create(createMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#create(java.lang.Class)
 */
@Override
public <T> T create(Class<T> createMe, String strategy) {
    checkState();

    return Utilities.justCreate(createMe, this, strategy);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#inject(java.lang.Object)
 */
@Override
public void inject(Object injectMe) {
    inject(injectMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#inject(java.lang.Object)
 */
@Override
public void inject(Object injectMe, String strategy) {
    checkState();

    Utilities.justInject(injectMe, this, strategy);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#postConstruct(java.lang.Object)
 */
@Override
public void postConstruct(Object postConstructMe) {
    postConstruct(postConstructMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#postConstruct(java.lang.Object)
 */
@Override
public void postConstruct(Object postConstructMe, String strategy) {

```

```

checkState();

if (postConstructMe == null) {
    throw new IllegalArgumentException();
}

if (((strategy == null) || strategy.equals(ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME)) &&
    (postConstructMe instanceof PostConstruct)) {
    ((PostConstruct) postConstructMe).postConstruct();
}
else {
    Utilities.justPostConstruct(postConstructMe, this, strategy);
}

}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#preDestroy(java.lang.Object)
 */
@Override
public void preDestroy(Object preDestroyMe) {
    preDestroy(preDestroyMe, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#preDestroy(java.lang.Object)
 */
@Override
public void preDestroy(Object preDestroyMe, String strategy) {
    checkState();

    if (preDestroyMe == null) {
        throw new IllegalArgumentException();
    }

    if (((strategy == null) || strategy.equals(ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME)) &&
        (preDestroyMe instanceof PreDestroy)) {
        ((PreDestroy) preDestroyMe).preDestroy();
    }
    else {
        Utilities.justPreDestroy(preDestroyMe, this, strategy);
    }
}

/**
 * Creates, injects and postConstructs, all in one
 */
public <U> U createAndInitialize(Class<U> createMe) {

```

```

        return createAndInitialize(createMe, null);
    }

    /**
     * Creates, injects and postConstructs, all in one
     */
    public <U> U createAndInitialize(Class<U> createMe, String strategy) {
        U retVal = create(createMe, strategy);
        inject(retVal, strategy);
        postConstruct(retVal, strategy);
        return retVal;
    }

    private static String getName(String name, Annotation... qualifiers) {
        if (name != null) return name;

        for (Annotation qualifier : qualifiers) {
            if (qualifier instanceof Named) {
                Named named = (Named) qualifier;
                if (named.value() != null && !named.value().isEmpty()) {
                    return named.value();
                }
            }
        }

        return null;
    }

    @SuppressWarnings("unchecked")
    private <T> ActiveDescriptor<T> internalGetDescriptor(Injectee onBehalfOf, Type contractOrImpl,
        String name,
        Unqualified unqualified,
        Annotation... qualifiers) throws MultiException {
        if (contractOrImpl == null) throw new IllegalArgumentException();

        Class<?> rawClass = ReflectionHelper.getRawClass(contractOrImpl);
        if (rawClass == null) return null; // Can't be a TypeVariable or Wildcard
        Utilities.checkLookupType(rawClass);

        rawClass = Utilities.translatePrimitiveType(rawClass);

        name = getName(name, qualifiers);

        boolean useCache = false;
        Filter filter;
        if (unqualified == null) {
            filter = BuilderHelper.createNameAndContractFilter(rawClass.getName(), name);

```

```

        useCache = true;
    }
    else {
        filter = new UnqualifiedIndexedFilter(rawClass.getName(), name, unqualified);
    }

    NarrowResults results = null;
    LinkedList<ErrorService> currentErrorHandlers = null;

    CacheKey ck = null;
    if (useCache) {
        // Create the CacheKey outside of the lock
        ck = new CacheKey(contractOrImpl, name, qualifiers);
    }

    ImmediateResults immediate = null;
    synchronized (lock) {
        if (useCache) {
            results = cache.get(ck);
        }

        if (results == null) {
            List<SystemDescriptor<?>> candidates = getDescriptors(filter, onBehalfOf, true, false, true);
            immediate = narrow(this,
                candidates,
                contractOrImpl,
                name,
                onBehalfOf,
                true,
                true,
                results,
                filter,
                qualifiers);
            results = immediate.getTimelessResults();
            if (!results.getErrors().isEmpty()) {
                currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
            }
            else if (ck != null) {
                CacheEntry entry = cache.put(ck, results);

                String releaseKey = rawClass.getName();
                List<CacheEntry> addToMe = cacheEntries.get(releaseKey);
                if (addToMe == null) {
                    addToMe = new LinkedList<CacheEntry>();
                    cacheEntries.put(releaseKey, addToMe);
                }

                addToMe.add(entry);
            }
        }
    }

```

```

    }
    }
    else {
        immediate = narrow(this,
            null,
            contractOrImpl,
            name,
            onBehalfOf,
            true,
            true,
            results,
            filter,
            qualifiers);
        results = immediate.getTimelessResults();
        if (!results.getErrors().isEmpty()) {
            currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
        }
    }
}

if (currentErrorHandlers != null) {
    // Do this next call OUTSIDE of the lock
    Utilities.handleErrors(results, currentErrorHandlers);
}

// Must do validation here in order to allow for caching
ActiveDescriptor<T> postValidateResult = immediate.getImmediateResults().isEmpty() ? null :
    (ActiveDescriptor<T>) immediate.getImmediateResults().get(0);

return postValidateResult;
}

@Override
public <T> ServiceHandle<T> getServiceHandle(Class<T> contractOrImpl,
    Annotation... qualifiers) throws MultiException {
    return getServiceHandle((Type) contractOrImpl, qualifiers);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(java.lang.reflect.Type,
java.lang.annotation.Annotation[])
 */
@Override
public <T> ServiceHandle<T> getServiceHandle(Type contractOrImpl,
    Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, null, qualifiers);

```

```

        if (ad == null) return null;

        return getServiceHandle(ad, new InjecteeImpl(contractOrImpl));
    }

    /* package */ <T> ServiceHandle<T> getUnqualifiedServiceHandle(Type contractOrImpl, Unqualified
unqualified, Annotation... qualifiers) throws MultiException {
        checkState();

        ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, null, unqualified, qualifiers);
        if (ad == null) return null;

        return getServiceHandle(ad, new InjecteeImpl(contractOrImpl));
    }

    private List<ServiceHandle<?>> protectedGetAllServiceHandles(
        final Type contractOrImpl, final Annotation... qualifiers) {
        return AccessController.doPrivileged(new PrivilegedAction<List<ServiceHandle<?>>>() {

            @Override
            public List<ServiceHandle<?>> run() {
                return getAllServiceHandles(contractOrImpl, qualifiers);
            }

        });
    }

    @Override
    public <T> List<ServiceHandle<T>> getAllServiceHandles(
        Class<T> contractOrImpl, Annotation... qualifiers)
        throws MultiException {
        return Utilities.cast(getAllServiceHandles((Type) contractOrImpl, qualifiers));
    }

    /* (non-Javadoc)
     * @see org.glassfish.hk2.api.ServiceLocator#getAllServiceHandles(java.lang.reflect.Type,
    java.lang.annotation.Annotation[])
     */
    @SuppressWarnings("unchecked")
    @Override
    public List<ServiceHandle<?>> getAllServiceHandles(
        Type contractOrImpl, Annotation... qualifiers)
        throws MultiException {
        return (List<ServiceHandle<?>>)
            internalGetAllServiceHandles(contractOrImpl, null, true, qualifiers);
    }

    /* package */ @SuppressWarnings("unchecked")

```

```

List<ServiceHandle<?>> getAllUnqualifiedServiceHandles(
    Type contractOrImpl, Unqualified unqualified, Annotation... qualifiers)
    throws MultiException {
    return (List<ServiceHandle<?>>)
        internalGetAllServiceHandles(contractOrImpl, unqualified, true, qualifiers);
}

private List<?> internalGetAllServiceHandles(
    Type contractOrImpl,
    Unqualified unqualified,
    boolean getHandles,
    Annotation... qualifiers)
    throws MultiException {
    if (contractOrImpl == null) throw new IllegalArgumentException();
    checkState();

    Class<?> rawClass = ReflectionHelper.getRawClass(contractOrImpl);
    if (rawClass == null) {
        throw new MultiException(new IllegalArgumentException("Type must be a class or parameterized type, it
was " + contractOrImpl));
    }

    boolean useCache = false;
    Filter filter;
    if (unqualified == null) {
        filter = BuilderHelper.createContractFilter(rawClass.getName());
        useCache = true;
    }
    else {
        filter = new UnqualifiedIndexedFilter(rawClass.getName(), null, unqualified);
    }

    NarrowResults results = null;
    LinkedList<ErrorService> currentErrorHandlers = null;

    CacheKey ck = null;
    if (useCache) {
        // Create the CacheKey outside of the lock
        ck = new CacheKey(contractOrImpl, null, qualifiers);
    }

    ImmediateResults immediate = null;
    synchronized (lock) {
        if (useCache) {
            results = cache.get(ck);
        }

        if (results == null) {

```

```

List<SystemDescriptor<?>> candidates = getDescriptors(filter, null, true, false, true);
immediate = narrow(this,
    candidates,
    contractOrImpl,
    null,
    null,
    false,
    true,
    results,
    filter,
    qualifiers);
results = immediate.getTimelessResults();
if (!results.getErrors().isEmpty()) {
    currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
}
else if (ck != null) {
    CacheEntry entry = cache.put(ck, results);

    String releaseKey = rawClass.getName();
    List<CacheEntry> addToMe = cacheEntries.get(releaseKey);
    if (addToMe == null) {
        addToMe = new LinkedList<CacheEntry>();
        cacheEntries.put(releaseKey, addToMe);
    }

    addToMe.add(entry);
}
else {
    immediate = narrow(this,
        null,
        contractOrImpl,
        null,
        null,
        false,
        true,
        results,
        filter,
        qualifiers);
    results = immediate.getTimelessResults();
    if (!results.getErrors().isEmpty()) {
        currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
    }
}

}

if (currentErrorHandlers != null) {

```



```

        // Do this next call OUTSIDE of the lock
        Utilities.handleErrors(results, currentErrorHandlers);
    }

    LinkedList<Object> retVal = new LinkedList<Object>();
    for (ActiveDescriptor<?> candidate : immediate.getImmediateResults()) {
        if (getHandles) {
            retVal.add(internalGetServiceHandle(candidate, contractOrImpl));
        }
        else {
            Object service = Utilities.createService(candidate, null, this, null, rawClass);

            retVal.add(service);
        }
    }

    return retVal;
}

@Override
public <T> ServiceHandle<T> getServiceHandle(Class<T> contractOrImpl,
        String name, Annotation... qualifiers) throws MultiException {
    return getServiceHandle((Type) contractOrImpl, name, qualifiers);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getServiceHandle(java.lang.reflect.Type, java.lang.String,
 java.lang.annotation.Annotation[])
 */
@Override
public <T> ServiceHandle<T> getServiceHandle(Type contractOrImpl,
        String name, Annotation... qualifiers) throws MultiException {
    checkState();

    ActiveDescriptor<T> ad = internalGetDescriptor(null, contractOrImpl, name, null, qualifiers);
    if (ad == null) return null;

    return internalGetServiceHandle(ad, contractOrImpl);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServiceHandles(org.glassfish.hk2.api.Filter)
 */
@Override
public List<ServiceHandle<?>> getAllServiceHandles(
        Filter searchCriteria) throws MultiException {
    checkState();

```

```

NarrowResults results;
LinkedList<ErrorService> currentErrorHandlers = null;
List<SystemDescriptor<?>> candidates = Utilities.cast(getDescriptors(searchCriteria));
ImmediateResults immediate = narrow(this,
    candidates,
    null,
    null,
    null,
    false,
    false,
    null,
    searchCriteria);
results = immediate.getTimelessResults();
if (!results.getErrors().isEmpty()) {
    currentErrorHandlers = new LinkedList<ErrorService>(errorHandlers);
}

if (currentErrorHandlers != null) {
    // Do this next call OUTSIDE of the lock
    Utilities.handleErrors(results, currentErrorHandlers);
}

SortedSet<ServiceHandle<?>> retVal = new TreeSet<ServiceHandle<?>>(HANDLE_COMPARATOR);
for (ActiveDescriptor<?> candidate : results.getResults()) {
    retVal.add(getServiceHandle(candidate));
}

return new LinkedList<ServiceHandle<?>>(retVal);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getAllServiceHandles(java.lang.annotation.Annotation,
java.lang.annotation.Annotation[])
 */
@Override
public List<ServiceHandle<?>> getAllServiceHandles(Annotation qualifier,
    Annotation... qualifiers) throws MultiException {
    checkState();

    if (qualifier == null) throw new IllegalArgumentException("qualifier is null");

    final Set<String> allQualifiers = new LinkedHashSet<String>();
    allQualifiers.add(qualifier.annotationType().getName());

    for (Annotation anno : qualifiers) {
        String addMe = anno.annotationType().getName();
        if (allQualifiers.contains(addMe)) {
            throw new IllegalArgumentException("Multiple qualifiers with name " + addMe);
        }
    }
}

```

```

    }

    allQualifiers.add(addMe);
}

return getAllServiceHandles(new Filter() {

    @Override
    public boolean matches(Descriptor d) {
        return d.getQualifiers().containsAll(allQualifiers);
    }

});
}

/**
 * Checks the configuration operation before anything happens to the internal data structures.
 *
 * @param dci The configuration that contains the proposed modifications
 * @return A set of descriptors that is being removed from the configuration
 */
private CheckConfigurationData checkConfiguration(DynamicConfigurationImpl dci) {
    List<SystemDescriptor<?>> retVal = new LinkedList<SystemDescriptor<?>>();
    boolean addOrRemoveOfInstanceListener = false;
    boolean addOrRemoveOfInjectionResolver = false;
    boolean addOrRemoveOfErrorHandler = false;
    boolean addOrRemoveOfClazzAnalyzer = false;
    HashSet<String> affectedContracts = new HashSet<String>();

    for (Filter unbindFilter : dci.getUnbindFilters()) {
        List<SystemDescriptor<?>> results = getDescriptors(unbindFilter, null, false, false, true);

        for (SystemDescriptor<?> candidate : results) {
            affectedContracts.addAll(getAllContracts(candidate));

            if (retVal.contains(candidate)) continue;

            for (ValidationService vs : getAllValidators()) {
                if (!vs.getValidator().validate(new ValidationInformationImpl(
                    Operation.UNBIND, candidate))) {
                    throw new MultiException(new IllegalArgumentException("Descriptor " +
                        candidate + " did not pass the UNBIND validation"));
                }
            }
        }

        if (candidate.getAdvertisedContracts().contains(InstanceLifecycleListener.class.getName())) {
            addOrRemoveOfInstanceListener = true;
        }
    }
}

```

```

    if (candidate.getAdvertisedContracts().contains(InjectionResolver.class.getName())) {
        addOrRemoveOfInjectionResolver = true;
    }
    if (candidate.getAdvertisedContracts().contains(ErrorService.class.getName())) {
        addOrRemoveOfErrorHandler = true;
    }
    if (candidate.getAdvertisedContracts().contains(ClassAnalyzer.class.getName())) {
        addOrRemoveOfClazzAnalyzer = true;
    }

    retVal.add(candidate);
}
}

for (SystemDescriptor<?> sd : dci.getAllDescriptors()) {
    affectedContracts.addAll(getAllContracts(sd));

    boolean checkScope = false;
    if (sd.getAdvertisedContracts().contains(ValidationService.class.getName()) ||
        sd.getAdvertisedContracts().contains(ErrorService.class.getName()) ||
        sd.getAdvertisedContracts().contains(InstanceLifecycleListener.class.getName())) {
        // These gets reified right away
        reifyDescriptor(sd);

        checkScope = true;

        if (sd.getAdvertisedContracts().contains(ErrorService.class.getName())) {
            addOrRemoveOfErrorHandler = true;
        }
        if (sd.getAdvertisedContracts().contains(InstanceLifecycleListener.class.getName())) {
            addOrRemoveOfInstanceListener = true;
        }
    }

    if (sd.getAdvertisedContracts().contains(InjectionResolver.class.getName())) {
        // This gets reified right away
        reifyDescriptor(sd);

        checkScope = true;

        if (Utilities.getInjectionResolverType(sd) == null) {
            throw new MultiException(new IllegalArgumentException(
                "An implementation of InjectionResolver must be a parameterized type and the actual type" +
                " must be an annotation"));
        }

        addOrRemoveOfInjectionResolver = true;
    }
}

```

```

if (sd.getAdvertisedContracts().contains(Context.class.getName())) {
    // This one need not be reified, it will get checked later
    checkScope = true;
}

if (sd.getAdvertisedContracts().contains(ClassAnalyzer.class.getName())) {
    addOrRemoveOfClazzAnalyzer = true;
}

if (checkScope) {
    String scope = (sd.getScope() == null) ? PerLookup.class.getName() : sd.getScope();

    if (!scope.equals(Singleton.class.getName())) {
        throw new MultiException(new IllegalArgumentException(
            "The implementation class " + sd.getImplementation() + " must be in the Singleton scope"));
    }
}

for (ValidationService vs : getAllValidators()) {
    Validator validator = vs.getValidator();
    if (validator == null) {
        throw new MultiException(new IllegalArgumentException("Validator was null from validation service"
+ vs));
    }

    if (!vs.getValidator().validate(new ValidationInformationImpl(
        Operation.BIND, sd))) {
        throw new MultiException(new IllegalArgumentException("Descriptor " + sd + " did not pass the BIND
validation"));
    }
}

return new CheckConfigurationData(retVal,
    addOrRemoveOfInstanceListener,
    addOrRemoveOfInjectionResolver,
    addOrRemoveOfErrorHandler,
    addOrRemoveOfClazzAnalyzer,
    affectedContracts);
}

private static List<String> getAllContracts(ActiveDescriptor<?> desc) {
    LinkedList<String> allContracts = new LinkedList<String>(desc.getAdvertisedContracts());
    allContracts.addAll(desc.getQualifiers());
    String scope = (desc.getScope() == null) ? PerLookup.class.getName() : desc.getScope();
    allContracts.add(scope);
}

```

```

    return allContracts;
}

@SuppressWarnings("unchecked")
private void removeConfigurationInternal(List<SystemDescriptor<?>> unbinds) {
    for (SystemDescriptor<?> unbind : unbinds) {
        if ((BIND_TRACING_PATTERN != null) && doTrace(unbind)) {
            Logger.getLogger().debug("HK2 Bind Tracing: Removing Descriptor " + unbind);
            if (BIND_TRACING_STACKS) {
                Logger.getLogger().debug("ServiceLocatorImpl", "removeConfigurationInternal", new Throwable());
            }
        }

        allDescriptors.removeDescriptor(unbind);

        for (String advertisedContract : getAllContracts(unbind)) {
            IndexedListData ild = descriptorsByAdvertisedContract.get(advertisedContract);
            if (ild == null) continue;

            ild.removeDescriptor(unbind);
            if (ild.isEmpty()) descriptorsByAdvertisedContract.remove(advertisedContract);
        }

        String unbindName = unbind.getName();
        if (unbindName != null) {
            IndexedListData ild = descriptorsByName.get(unbindName);
            if (ild != null) {
                ild.removeDescriptor(unbind);
                if (ild.isEmpty()) {
                    descriptorsByName.remove(unbindName);
                }
            }
        }

        if (unbind.getAdvertisedContracts().contains(ValidationService.class.getName())) {
            ServiceHandle<ValidationService> handle = (ServiceHandle<ValidationService>)
getServiceHandle(unbind);
            ValidationService vs = handle.getService();
            allValidators.remove(vs);
        }
    }
}

private static boolean doTrace(ActiveDescriptor<?> desc) {
    if (BIND_TRACING_PATTERN == null) return false;
    if ("*".equals(BIND_TRACING_PATTERN)) return true;

    if (desc.getImplementation() == null) return true; // Null here matches everything
}

```

```

StringTokenizer st = new StringTokenizer(BIND_TRACING_PATTERN, "|");
while (st.hasMoreTokens()) {
    String token = st.nextToken();

    if (desc.getImplementation().contains(token)) {
        return true;
    }

    for (String contract : desc.getAdvertisedContracts()) {
        if (contract.contains(token)) return true;
    }
}

return false;
}

@SuppressWarnings("unchecked")
private List<SystemDescriptor<?>> addConfigurationInternal(DynamicConfigurationImpl dci) {
    List<SystemDescriptor<?>> thingsAdded = new LinkedList<SystemDescriptor<?>>();

    for (SystemDescriptor<?> sd : dci.getAllDescriptors()) {
        if ((BIND_TRACING_PATTERN != null) && doTrace(sd)) {
            Logger.getLogger().debug("HK2 Bind Tracing: Adding Descriptor " + sd);
            if (BIND_TRACING_STACKS) {
                Logger.getLogger().debug("ServiceLocatorImpl", "addConfigurationInternal", new Throwable());
            }
        }

        thingsAdded.add(sd);
        allDescriptors.addDescriptor(sd);

        List<String> allContracts = getAllContracts(sd);

        for (String advertisedContract : allContracts) {
            IndexedListData ild = descriptorsByAdvertisedContract.get(advertisedContract);
            if (ild == null) {
                ild = new IndexedListData();
                descriptorsByAdvertisedContract.put(advertisedContract, ild);
            }

            ild.addDescriptor(sd);
        }

        if (sd.getName() != null) {
            String name = sd.getName();
            IndexedListData ild = descriptorsByName.get(name);
            if (ild == null) {

```

```

        ild = new IndexedListData();
        descriptorsByName.put(name, ild);
    }

    ild.addDescriptor(sd);
}

if (sd.getAdvertisedContracts().contains(ValidationService.class.getName())) {
    ServiceHandle<ValidationService> handle = getServiceHandle((ActiveDescriptor<ValidationService>)
sd);
    ValidationService vs = handle.getService();
    allValidators.add(vs);
}
}

return thingsAdded;
}

private void reupInjectionResolvers() {
    HashMap<Class<? extends Annotation>, InjectionResolver<?>> newResolvers =
        new HashMap<Class<? extends Annotation>, InjectionResolver<?>>();

    Filter injectionResolverFilter = BuilderHelper.createContractFilter(
        InjectionResolver.class.getName());

    List<ActiveDescriptor<?>> resolverDescriptors = protectedGetDescriptors(injectionResolverFilter);

    for (ActiveDescriptor<?> resolverDescriptor : resolverDescriptors) {
        Class<? extends Annotation> iResolve = Utilities.getInjectionResolverType(resolverDescriptor);

        if (iResolve != null && !newResolvers.containsKey(iResolve)) {
            InjectionResolver<?> resolver = (InjectionResolver<?>)
                getServiceHandle(resolverDescriptor).getService();

            newResolvers.put(iResolve, resolver);
        }
    }

    synchronized (resolversLock) {
        allResolvers = newResolvers;
    }
}

private void reupErrorHandlers() {
    List<ErrorService> allErrorServices = protectedGetAllServices(ErrorService.class);

    errorHandlers.clear();
    errorHandlers.addAll(allErrorServices);
}

```



```

}

private void reupInstanceListenersHandlers(Collection<SystemDescriptor<?>> checkList) {
    List<InstanceLifecycleListener> allLifecycleListeners =
protectedGetAllServices(InstanceLifecycleListener.class);

    for (SystemDescriptor<?> descriptor : checkList) {
        descriptor.reupInstanceListeners(allLifecycleListeners);
    }
}

@SuppressWarnings("unchecked")
private void reupClassAnalyzers() {
    List<ServiceHandle<?>> allAnalyzers = protectedGetAllServiceHandles(ClassAnalyzer.class);

    synchronized (classAnalyzerLock) {
        classAnalyzers.clear();

        for (ServiceHandle<?> handle : allAnalyzers) {
            ActiveDescriptor<?> descriptor = handle.getActiveDescriptor();
            String name = descriptor.getName();
            if (name == null) continue;

            ClassAnalyzer created = ((ServiceHandle<ClassAnalyzer>) handle).getService();
            if (created == null) continue;

            classAnalyzers.put(name, created);
        }
    }
}

private void reupCache(HashSet<String> affectedContracts) {
    // This lock must be acquired as reupCache is called on children
    synchronized (lock) {
        for (String affectedContract : affectedContracts) {
            List<CacheEntry> entries = cacheEntries.remove(affectedContract);
            if (entries == null) continue;

            for (CacheEntry entry : entries) {
                entry.removeFromCache();
            }
        }
    }
}

private void reup(List<SystemDescriptor<?>> thingsAdded,
    boolean instanceListenersModified,
    boolean injectionResolversModified,

```

```

        boolean errorHandlersModified,
        boolean classAnalyzersModified,
        HashSet<String> affectedContracts) {

    // This MUST come before the other re-ups, in case the other re-ups look for
    // items that may have previously been cached
    reupCache(affectedContracts);

    if (injectionResolversModified) {
        reupInjectionResolvers();
    }

    if (errorHandlersModified) {
        reupErrorHandlers();
    }

    if (instanceListenersModified) {
        reupInstanceListenersHandlers(allDescriptors.getSortedList());
    }
    else {
        reupInstanceListenersHandlers(thingsAdded);
    }

    if (classAnalyzersModified) {
        reupClassAnalyzers();
    }

    contextCache.clear();
}

private void getAllChildren(LinkedList<ServiceLocatorImpl> allMyChildren) {
    LinkedList<ServiceLocatorImpl> addMe;
    synchronized (children) {
        addMe = new LinkedList<ServiceLocatorImpl>(children.keySet());
    }

    allMyChildren.addAll(addMe);

    for (ServiceLocatorImpl sli : addMe) {
        sli.getAllChildren(allMyChildren);
    }
}

/* package */ void addConfiguration(DynamicConfigurationImpl dci) {
    CheckConfigurationData checkData;

    synchronized (lock) {
        checkData = checkConfiguration(dci); // Does as much preliminary checking as possible
    }
}

```

```

removeConfigurationInternal(checkData.getUnbinds());

List<SystemDescriptor<?>> thingsAdded = addConfigurationInternal(dci);

reup(thingsAdded,
    checkData.getInstanceLifecycleModificationsMade(),
    checkData.getInjectionResolverModificationMade(),
    checkData.getErrorHandlerModificationMade(),
    checkData.getClassAnalyzerModificationMade(),
    checkData.getAffectedContracts());
}

LinkedList<ServiceLocatorImpl> allMyChildren = new LinkedList<ServiceLocatorImpl>();
getAllChildren(allMyChildren);

for (ServiceLocatorImpl sli : allMyChildren) {
    sli.reupCache(checkData.getAffectedContracts());
}
}

/* package */ boolean isInjectAnnotation(Annotation annotation) {
    synchronized (resolversLock) {
        return allResolvers.containsKey(annotation.annotationType());
    }
}

/* package */ boolean isInjectAnnotation(Annotation annotation, boolean isConstructor) {
    InjectionResolver<?> resolver;
    synchronized (resolversLock) {
        resolver = allResolvers.get(annotation.annotationType());
    }

    if (resolver == null) return false;

    if (isConstructor) {
        return resolver.isConstructorParameterIndicator();
    }

    return resolver.isMethodParameterIndicator();
}

/* package */ InjectionResolver<?> getInjectionResolver(Class<? extends Annotation> annoType) {
    synchronized (resolversLock) {
        return allResolvers.get(annoType);
    }
}
}

```

```

/* package */ Context<?> resolveContext(Class<? extends Annotation> scope) throws IllegalStateException {
    if (scope.equals(Singleton.class)) return singletonContext;
    if (scope.equals(PerLookup.class)) return perLookupContext;

    synchronized (lock) {
        Context<?> retVal = contextCache.get(scope);
        if (retVal != null) return retVal;

        Type actuals[] = new Type[1];
        actuals[0] = scope;
        ParameterizedType findContext = new ParameterizedTypeImpl(Context.class, actuals);

        List<ServiceHandle<Context<?>>> contextHandles = Utilities.<List<ServiceHandle<Context<?>>>>cast(
            protectedGetAllServiceHandles(findContext));

        for (ServiceHandle<Context<?>> contextHandle : contextHandles) {
            Context<?> context = contextHandle.getService();

            if (!context.isActive()) continue;

            if (retVal != null) {
                throw new IllegalStateException("There is more than one active context for " + scope.getName());
            }

            retVal = context;
        }

        if (retVal == null) {
            throw new IllegalStateException("Could not find an active context for " + scope.getName());
        }

        contextCache.put(scope, retVal);

        return retVal;
    }
}

private Class<?> loadClass(Descriptor descriptor, Injectee injectee) {
    if (descriptor == null) throw new IllegalArgumentException();

    HK2Loader loader = descriptor.getLoader();
    if (loader == null) {
        return Utilities.loadClass(descriptor.getImplementation(), injectee);
    }

    Class<?> retVal;
    try {
        retVal = loader.loadClass(descriptor.getImplementation());
    }
}

```

```

    }
    catch (MultiException me) {
        me.addError(new IllegalStateException("Could not load descriptor " + descriptor));

        throw me;
    }
    catch (Throwable th) {
        MultiException me = new MultiException(th);
        me.addError(new IllegalStateException("Could not load descriptor " + descriptor));

        throw me;
    }

    return retVal;
}

private ImmediateResults narrow(ServiceLocator locator,
    List<SystemDescriptor<?>> candidates,
    Type requiredType,
    String name,
    Injectee injectee,
    boolean onlyOne,
    boolean doValidation,
    NarrowResults cachedResults,
    Filter filter,
    Annotation... qualifiers) {
    ImmediateResults retVal = new ImmediateResults(cachedResults);
    cachedResults = retVal.getTimelessResults();

    if (candidates != null) {
        List<ActiveDescriptor<?>> ICandidates = Utilities.cast(candidates);
        cachedResults.setUnnarrowedResults(ICandidates);
    }

    Set<Annotation> requiredAnnotations = Utilities.fixAndCheckQualifiers(qualifiers, name);

    for (ActiveDescriptor<?> previousResult : cachedResults.getResults()) {
        if (doValidation && !validate((SystemDescriptor<?>) previousResult, injectee, filter)) continue;

        retVal.addValidatedResult(previousResult);

        if (onlyOne) return retVal;
    }

    if ((requiredType != null) &&
        (requiredType instanceof Class) &&
        ((Class<?>) requiredType).isAnnotation()) {
        // In the annotation case we need not do type checking, so do not reify

```

```

    requiredType = null;
}

ActiveDescriptor<?> candidate;
while ((candidate = cachedResults.removeUnnarrowedResult()) != null) {
    boolean doReify = false;
    if ((requiredType != null || !requiredAnnotations.isEmpty()) &&
        !candidate.isReified()) {
        doReify = true;
    }

    if (doReify) {
        try {
            candidate = locator.reifyDescriptor(candidate, injectee);
        }
        catch (MultiException me) {
            cachedResults.addError(candidate, injectee, me);
            continue;
        }
        catch (Throwable th) {
            cachedResults.addError(candidate, injectee, new MultiException(th));
            continue;
        }
    }

    // Now match it
    if (requiredType != null) {
        boolean safe = false;
        for (Type candidateType : candidate.getContractTypes()) {
            if (TypeChecker.isTypeSafe(requiredType, candidateType)) {
                safe = true;
                break;
            }
        }

        if (!safe) {
            // Sorry, not type safe
            continue;
        }
    }

    // Now match the qualifiers

    // Checking requiredAnnotations isEmpty is a performance optimization which avoids
    // a potentially expensive doPriv call in the second part of the AND statement
    if (!requiredAnnotations.isEmpty()) {
        Set<Annotation> candidateAnnotations = candidate.getQualifierAnnotations();
    }
}

```

```

        if (!Utilities.annotationContainsAll(candidateAnnotations, requiredAnnotations)) {
            // The qualifiers do not match
            continue;
        }
    }

    // If we are here, then this one matches
    cachedResults.addGoodResult(candidate);

    if (doValidation && !validate((SystemDescriptor<?>) candidate, injectee, filter)) continue;
    retVal.addValidatedResult(candidate);

    if (onlyOne) return retVal;
}

return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ServiceLocator#getLocatorId()
 */
@Override
public long getLocatorId() {
    return id;
}

/* package */ long getNextServiceId() {
    synchronized (lock) {
        return nextServiceId++;
    }
}

private void addChild(ServiceLocatorImpl child) {
    synchronized (children) {
        children.put(child, null);
    }
}

private void removeChild(ServiceLocatorImpl child) {
    synchronized (children) {
        children.remove(child);
    }
}

private void checkState() {
    if (ServiceLocatorState.SHUTDOWN.equals(state)) throw new IllegalStateException(this + " has been shut
down");
}

```

```

private LinkedHashSet<ValidationService> getAllValidators() {
    if (parent == null) {
        return allValidators;
    }

    LinkedHashSet<ValidationService> retVal = new LinkedHashSet<ValidationService>();

    retVal.addAll(parent.getAllValidators());
    retVal.addAll(allValidators);

    return retVal;
}

@Override
public String getDefaultClassAnalyzerName() {
    synchronized (classAnalyzerLock) {
        return defaultClassAnalyzer;
    }
}

@Override
public void setDefaultClassAnalyzerName(String defaultClassAnalyzer) {
    synchronized (classAnalyzerLock) {
        if (defaultClassAnalyzer == null) {
            this.defaultClassAnalyzer = ClassAnalyzer.DEFAULT_IMPLEMENTATION_NAME;
        }
        else {
            this.defaultClassAnalyzer = defaultClassAnalyzer;
        }
    }
}

/* package */ ClassAnalyzer getAnalyzer(String name, Collector collector) {
    ClassAnalyzer retVal;
    synchronized (classAnalyzerLock) {
        if (name == null) {
            name = defaultClassAnalyzer ;
        }

        retVal = classAnalyzers.get(name);
    }

    if (retVal == null) {
        collector.addThrowable(new IllegalStateException(
            "Could not find an implementation of ClassAnalyzer with name " +
            name));
        return null;
    }
}

```



```

    }

    return retVal;
}

private static class CheckConfigurationData {
    private final List<SystemDescriptor<?>> unbinds;
    private final boolean instanceLifecycleModificationMade;
    private final boolean injectionResolverModificationMade;
    private final boolean errorHandlerModificationMade;
    private final boolean classAnalyzerModificationMade;
    private final HashSet<String> affectedContracts;

    private CheckConfigurationData(List<SystemDescriptor<?>> unbinds,
        boolean instanceLifecycleModificationMade,
        boolean injectionResolverModificationMade,
        boolean errorHandlerModificationMade,
        boolean classAnalyzerModificationMade,
        HashSet<String> affectedContracts) {
        this.unbinds = unbinds;
        this.instanceLifecycleModificationMade = instanceLifecycleModificationMade;
        this.injectionResolverModificationMade = injectionResolverModificationMade;
        this.errorHandlerModificationMade = errorHandlerModificationMade;
        this.classAnalyzerModificationMade = classAnalyzerModificationMade;
        this.affectedContracts = affectedContracts;
    }

    private List<SystemDescriptor<?>> getUnbinds() {
        return unbinds;
    }

    private boolean getInstanceLifecycleModificationsMade() {
        return instanceLifecycleModificationMade;
    }

    private boolean getInjectionResolverModificationMade() {
        return injectionResolverModificationMade;
    }

    private boolean getErrorHandlerModificationMade() {
        return errorHandlerModificationMade;
    }

    private boolean getClassAnalyzerModificationMade() {
        return classAnalyzerModificationMade;
    }

    private HashSet<String> getAffectedContracts() {

```

```

        return affectedContracts;
    }
}

private static class UnqualifiedIndexedFilter implements IndexedFilter {
    private final String contract;
    private final String name;
    private final Unqualified unqualified;

    private UnqualifiedIndexedFilter(String contract, String name, Unqualified unqualified) {
        this.contract = contract;
        this.name = name;
        this.unqualified = unqualified;
    }

    @Override
    public boolean matches(Descriptor d) {
        Class<? extends Annotation> unqualifiedAnnos[] = unqualified.value();

        if (unqualifiedAnnos.length <= 0) {
            return (d.getQualifiers().isEmpty());
        }

        Set<String> notAllowed = new HashSet<String>();
        for (Class<? extends Annotation> notMe : unqualifiedAnnos) {
            notAllowed.add(notMe.getName());
        }

        for (String qualifier : d.getQualifiers()) {
            if (notAllowed.contains(qualifier)) return false;
        }

        return true;
    }

    @Override
    public String getAdvertisedContract() {
        return contract;
    }

    @Override
    public String getName() {
        return name;
    }
}

public String toString() {

```

```

        return "ServiceLocatorImpl(" + locatorName + "," + id + "," + System.identityHashCode(this) + ")";
    }
}
/*
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 * and therefore, elected the GPL Version 2 license, then the option applies
 * only if the new code is made subject to such option by the copyright
 * holder.
 */
package org.jvnet.hk2.internal;

import java.lang.annotation.Annotation;
import java.lang.reflect.AnnotatedElement;
import java.lang.reflect.Constructor;
import java.lang.reflect.Field;

```

```

import java.lang.reflect.Method;
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.Set;

import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.Unqualified;
import org.glassfish.hk2.utilities.reflection.Pretty;

/**
 * This is an implementation of Injectee that is used by the system.
 *
 * @author jwells
 *
 */
public class InjecteeImpl implements Injectee {
    private final Type requiredType;
    private final Set<Annotation> qualifiers;
    private final int position;
    private final Class<?> pClass;
    private final AnnotatedElement parent;
    private final boolean isOptional;
    private final boolean isSelf;
    private final Unqualified unqualified;

    /* package */ InjecteeImpl(
        Type requiredType,
        Set<Annotation> qualifiers,
        int position,
        AnnotatedElement parent,
        boolean isOptional,
        boolean isSelf,
        Unqualified unqualified) {
        this.requiredType = requiredType;
        this.position = position;
        this.parent = parent;
        this.qualifiers = Collections.unmodifiableSet(qualifiers);
        this.isOptional = isOptional;
        this.isSelf = isSelf;
        this.unqualified = unqualified;

        if (parent instanceof Field) {
            pClass = ((Field) parent).getDeclaringClass();
        }
        else if (parent instanceof Constructor) {
            pClass = ((Constructor<?>) parent).getDeclaringClass();
        }
        else {

```

```

        pClass = ((Method) parent).getDeclaringClass();
    }
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getRequiredType()
 */
@Override
public Type getRequiredType() {
    return requiredType;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getRequiredQualifiers()
 */
@Override
public Set<Annotation> getRequiredQualifiers() {
    return qualifiers;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getPosition()
 */
@Override
public int getPosition() {
    return position;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getInjecteeClass()
 */
@Override
public Class<?> getInjecteeClass() {
    return pClass;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#getParent()
 */
@Override
public AnnotatedElement getParent() {
    return parent;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#isOptional()
 */
@Override

```

```

public boolean isOptional() {
    return isOptional;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Injectee#isSelf()
 */
@Override
public boolean isSelf() {
    return isSelf;
}

@Override
public Unqualified getUnqualified() {
    return unqualified;
}

public String toString() {
    return "Injectee(requiredType=" + Pretty.type(requiredType) +
        ",parent=" + Pretty.clazz(pClass) +
        ",qualifiers=" + Pretty.collection(qualifiers) +
        ",position=" + position +
        ",optional=" + isOptional +
        ",self=" + isSelf +
        ",unqualified=" + unqualified +
        "," + System.identityHashCode(this) + ")";
}

}
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\*/

```
package org.jvnet.hk2.internal;
```

```
import java.util.LinkedList;
```

```
import org.glassfish.hk2.api.ActiveDescriptor;
```

```
import org.glassfish.hk2.api.Descriptor;
```

```
import org.glassfish.hk2.api.DescriptorType;
```

```
import org.glassfish.hk2.api.DynamicConfiguration;
```

```
import org.glassfish.hk2.api.FactoryDescriptors;
```

```
import org.glassfish.hk2.api.Filter;
```

```
import org.glassfish.hk2.api.MultiException;
```

```
import org.glassfish.hk2.utilities.reflection.Pretty;
```

```
/**
```

```
 * @author jwells
```

```
 *
```

```
*/
```

```
public class DynamicConfigurationImpl implements DynamicConfiguration {
```

```
    private final ServiceLocatorImpl locator;
```

```
    private final LinkedList<SystemDescriptor<?>> allDescriptors = new LinkedList<SystemDescriptor<?>>();
```

```
    private final LinkedList<Filter> allUnbindFilters = new LinkedList<Filter>();
```

```
    private final Object lock = new Object();
```

```
    private boolean committed = false;
```

```
/**
```

```
 * Created by the generator, and hence must be public
```

```

*
* @param locator The locator for which this will be the configuration service
*/
public DynamicConfigurationImpl(ServiceLocatorImpl locator) {
    this.locator = locator;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.Configuration#bind(org.glassfish.hk2.api.Descriptor)
*/
@Override
public <T> ActiveDescriptor<T> bind(Descriptor key) {
    return bind(key, true);
}

@Override
public <T> ActiveDescriptor<T> bind(Descriptor key, boolean requiresDeepCopy) {
    checkState();
    checkDescriptor(key);

    SystemDescriptor<T> sd = new SystemDescriptor<T>(key,
        requiresDeepCopy,
        locator,
        new Long(locator.getNextServiceId()));

    allDescriptors.add(sd);

    return sd;
}

/* (non-Javadoc)
* @see org.glassfish.hk2.api.Configuration#bind(org.glassfish.hk2.api.FactoryDescriptors)
*/
@Override
public FactoryDescriptors bind(FactoryDescriptors factoryDescriptors) {
    return bind(factoryDescriptors, true);
}

@Override
public FactoryDescriptors bind(FactoryDescriptors factoryDescriptors, boolean requiresDeepCopy) {
    if (factoryDescriptors == null) throw new IllegalArgumentException("factoryDescriptors is null");

    // Now a bunch of validations
    Descriptor asService = factoryDescriptors.getFactoryAsAService();
    Descriptor asFactory = factoryDescriptors.getFactoryAsAFactory();

    checkDescriptor(asService);
    checkDescriptor(asFactory);
}

```



```

String implClassService = asService.getImplementation();
String implClassFactory = asFactory.getImplementation();

if (!implClassService.equals(implClassFactory)) {
    throw new IllegalArgumentException("The implementation classes must match (" +
        implClassService + "/" + implClassFactory + ")");
}

if (!asService.getDescriptorType().equals(DescriptorType.CLASS)) {
    throw new IllegalArgumentException("The getFactoryAsService descriptor must be of type CLASS");
}
if (!asFactory.getDescriptorType().equals(DescriptorType.PROVIDE_METHOD)) {
    throw new IllegalArgumentException("The getFactoryAsFactory descriptor must be of type
PROVIDE_METHOD");
}

final SystemDescriptor<?> boundAsService = new SystemDescriptor<Object>(asService,
    requiresDeepCopy,
    locator,
    new Long(locator.getNextServiceId()));

// Link the factory descriptor to the service descriptor for the factory
final SystemDescriptor<?> boundAsFactory = new SystemDescriptor<Object>(asFactory,
    requiresDeepCopy,
    locator,
    new Long(locator.getNextServiceId()));

if (asService instanceof ActiveDescriptor) {
    boundAsFactory.setFactoryIds(boundAsService.getLocatorId(),
        boundAsService.getServiceId());
}

// Bind the factory first, so normally people get the factory, not the service
allDescriptors.add(boundAsFactory);
allDescriptors.add(boundAsService);

return new FactoryDescriptors() {

    @Override
    public Descriptor getFactoryAsAService() {
        return boundAsService;
    }

    @Override
    public Descriptor getFactoryAsAFactory() {
        return boundAsFactory;
    }
}

```

```

    };
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Configuration#addActiveDescriptor(org.glassfish.hk2.api.ActiveDescriptor)
 */
@Override
public <T> ActiveDescriptor<T> addActiveDescriptor(ActiveDescriptor<T> activeDescriptor)
    throws IllegalArgumentException {
    return addActiveDescriptor(activeDescriptor, true);
}

@Override
public <T> ActiveDescriptor<T> addActiveDescriptor(ActiveDescriptor<T> activeDescriptor, boolean
requiresDeepCopy)
    throws IllegalArgumentException {
    checkState();
    checkDescriptor(activeDescriptor);

    if (!activeDescriptor.isReified()) {
        throw new IllegalArgumentException();
    }

    checkReifiedDescriptor(activeDescriptor);

    SystemDescriptor<T> retVal = new SystemDescriptor<T>(activeDescriptor,
        requiresDeepCopy,
        locator,
        new Long(locator.getNextServiceId()));

    allDescriptors.add(retVal);

    return retVal;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Configuration#addActiveDescriptor(java.lang.Class)
 */
@Override
public <T> ActiveDescriptor<T> addActiveDescriptor(Class<T> rawClass)
    throws IllegalArgumentException {
    ActiveDescriptor<T> ad = Utilities.createAutoDescriptor(rawClass, locator);

    checkReifiedDescriptor(ad);

    return addActiveDescriptor(ad, false);
}

```

```

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.Configuration#addUnbindFilter(org.glassfish.hk2.api.Filter)
 */
@Override
public void addUnbindFilter(Filter unbindFilter)
    throws IllegalArgumentException {
    if (unbindFilter == null) throw new IllegalArgumentException();

    allUnbindFilters.add(unbindFilter);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.DynamicConfiguration#commit()
 */
@Override
public void commit() throws MultiException {
    synchronized (lock) {
        checkState();

        committed = true;
    }

    locator.addConfiguration(this);
}

private void checkState() {
    synchronized (lock) {
        if (committed) throw new IllegalStateException();
    }
}

private static void checkDescriptor(Descriptor d) {
    if (d == null) throw new IllegalArgumentException();
    if (d.getImplementation() == null) throw new IllegalArgumentException();
    if (d.getAdvertisedContracts() == null) throw new IllegalArgumentException();
    if (d.getDescriptorType() == null) throw new IllegalArgumentException();
    if (d.getDescriptorVisibility() == null) throw new IllegalArgumentException();
    if (d.getMetadata() == null) throw new IllegalArgumentException();
    if (d.getQualifiers() == null) throw new IllegalArgumentException();
}

private static void checkReifiedDescriptor(ActiveDescriptor<?> d) {
    if (d.isProxiable() == null) return;
    if (!d.isProxiable()) return;

    // Now check to see if the scope is unproxiable
    if (Utilities.isUnproxiableScope(d.getScopeAnnotation())) throw new IllegalArgumentException();
}

```

```

}

/**
 * @return the allDescriptors
 */
/* package */ LinkedList<SystemDescriptor<?>> getAllDescriptors() {
    return allDescriptors;
}

/* package */ LinkedList<Filter> getUnbindFilters() {
    return allUnbindFilters;
}

public String toString() {
    return "DynamicConfigurationImpl(" + locator + "," +
        Pretty.collection(allDescriptors) + "," +
        Pretty.collection(allUnbindFilters) + "," +
        System.identityHashCode(this) + ")";
}
}
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```

```
package org.jvnet.hk2.internal;
```

```
import java.lang.reflect.Method;
```

```
import org.glassfish.hk2.api.ActiveDescriptor;
```

```
import org.glassfish.hk2.api.Context;
```

```
import org.glassfish.hk2.api.MultiException;
```

```
import org.glassfish.hk2.api.ServiceHandle;
```

```
import org.glassfish.hk2.utilities.reflection.ReflectionHelper;
```

```
import net.sf.cglib.proxy.MethodInterceptor;
```

```
import net.sf.cglib.proxy.MethodProxy;
```

```
/**
```

```
 * @author jwells
```

```
 *
```

```
 */
```

```
public class MethodInterceptorImpl implements MethodInterceptor {
    private final static String PROXY_MORE_METHOD_NAME = "__make";
```

```
    private final ServiceLocatorImpl locator;
```

```
    private final ActiveDescriptor<?> descriptor;
```

```
    private final ServiceHandle<?> root;
```

```

    /* package */ MethodInterceptorImpl(ServiceLocatorImpl sli, ActiveDescriptor<?> descriptor, ServiceHandle<?>
root) {
        this.locator = sli;
        this.descriptor = descriptor;
        this.root = root;
    }

```

```
    /* (non-Javadoc)
```

```
    * @see net.sf.cglib.proxy.MethodInterceptor#intercept(java.lang.Object, java.lang.reflect.Method,
java.lang.Object[], net.sf.cglib.proxy.MethodProxy)
```

```
    */
```

```
    @Override
```

```
    public Object intercept(Object target, Method method, Object[] params,
```

```

    MethodProxy proxy) throws Throwable {
Context<?> context = locator.resolveContext(descriptor.getScopeAnnotation());
Object service = context.findOrCreate(descriptor, root);
if (service == null) {
    throw new MultiException(new IllegalStateException("Proxiable context " +
        context + " findOrCreate returned a null for descriptor " + descriptor +
        " and handle " + root));
}

if (method.getName().equals(PROXY_MORE_METHOD_NAME)) {
    // We did what we came here to do
    return service;
}

return ReflectionHelper.invoke(service, method, params);
}
}
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```

```
*/
```

```
package org.jvnet.hk2.internal;
```

```
import org.glassfish.hk2.api.ActiveDescriptor;
import org.glassfish.hk2.api.Filter;
import org.glassfish.hk2.api.Injectee;
import org.glassfish.hk2.api.Operation;
import org.glassfish.hk2.api.ValidationInformation;
```

```
/**
```

```
 * @author jwells
```

```
 *
```

```
*/
```

```
public class ValidationInformationImpl implements ValidationInformation {
    private final Operation operation;
    private final ActiveDescriptor<?> candidate;
    private final Injectee injectee;
    private final Filter filter;
```

```
/**
```

```
 * Creates the validation information
```

```
 * @param operation The operation to perform
```

```
 * @param candidate The candidate to perform it on
```

```
 * @param injectee The injectee that may be involved
```

```
 * @param filter The filter that may be involved in the lookup
```

```
*/
```

```
public ValidationInformationImpl(Operation operation,
    ActiveDescriptor<?> candidate,
    Injectee injectee,
    Filter filter) {
    this.operation = operation;
    this.candidate = candidate;
    this.injectee = injectee;
    this.filter = filter;
}
```

```
/**
```

```
 * Creates the validation information
```

```
 * @param operation The operation to perform
```

```
 * @param candidate The candidate to perform it on
```

```

*/
public ValidationInformationImpl(Operation operation,
    ActiveDescriptor<?> candidate) {
    this(operation, candidate, null, null);
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getOperation()
 */
@Override
public Operation getOperation() {
    return operation;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getCandidate()
 */
@Override
public ActiveDescriptor<?> getCandidate() {
    return candidate;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getInjectee()
 */
@Override
public Injectee getInjectee() {
    return injectee;
}

/* (non-Javadoc)
 * @see org.glassfish.hk2.api.ValidationInformation#getFilter()
 */
@Override
public Filter getFilter() {
    return filter;
}

public String toString() {
    return "ValidationInformation(" + operation + "," +
        candidate + "," +
        injectee + "," +
        filter + "," +
        System.identityHashCode(this) + ")";
}
}

```



# 8.134 hk2-utils 2.1.88

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## 8.141 jackson-core-asl 1.8.5

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## 8.142 jackson-core-asl 1.9.2

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## 8.147 jackson-mapper-asl 1.9.12

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## 8.148 jackson-mapper-asl 1.8.5

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# 8.149 jackson-module-JAXB-annotations

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# 8.150 jansi 1.9

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### 1.9.0

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# 8.161 javax.ws.rs:jrs311-api 1.1.1 :REL

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 */

package javax.ws.rs.core;

import java.util.Collections;
import java.util.Set;

/**
 * Defines the components of a JAX-RS application and supplies additional
 * metadata. A JAX-RS application or implementation supplies a concrete
 * subclass of this abstract class.
 *
 * <p>The implementation-created instance of an Application subclass may be
 * injected into resource classes and providers using
 * { @link javax.ws.rs.core.Context} .<p>
 */
public class Application {
    private static final Set<Object> emptyObjectSet = Collections.emptySet();
    private static final Set<Class<?>> emptyClassSet = Collections.emptySet();

    /**
     * Get a set of root resource and provider classes. The default lifecycle
     * for resource class instances is per-request. The default lifecycle for
     * providers is singleton.
     *
     * <p>Implementations should warn about and ignore classes that do not
     * conform to the requirements of root resource or provider classes.
     * Implementations should warn about and ignore classes for which
     * { @link #getSingletons()} returns an instance. Implementations MUST
     * NOT modify the returned set.</p>
     *
     * <p>The default implementation returns an empty set.</p>
     */
}
```

```

* @return a set of root resource and provider classes. Returning null
* is equivalent to returning an empty set.
*/
public Set<Class<?>> getClasses() {
    return emptyClassSet;
}

/**
* Get a set of root resource and provider instances. Fields and properties
* of returned instances are injected with their declared dependencies
* (see { @link Context }) by the runtime prior to use.
*
* <p>Implementations should warn about and ignore classes that do not
* conform to the requirements of root resource or provider classes.
* Implementations should flag an error if the returned set includes
* more than one instance of the same class. Implementations MUST
* NOT modify the returned set.</p>
*
* <p>The default implementation returns an empty set.</p>
*
* @return a set of root resource and provider instances. Returning null
* is equivalent to returning an empty set.
*/
public Set<Object> getSingletons() {
    return emptyObjectSet;
}

}

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*/

package javax.ws.rs;

import javax.ws.rs.core.Response;

/**
* Runtime exception for applications.
* <p>
* This exception may be thrown by a resource method, provider or

```

```

* {@link javax.ws.rs.core.StreamingOutput} implementation if a specific
* HTTP error response needs to be produced. Only effective if thrown prior to
* the response being committed.
*
* @author Paul.Sandoz@Sun.Com
*/
public class WebApplicationException extends RuntimeException {

    private static final long serialVersionUID = 11660101L;

    private Response response;

    /**
     * Construct a new instance with a blank message and default HTTP status code of 500
     */
    public WebApplicationException() {
        this(null, Response.Status.INTERNAL_SERVER_ERROR);
    }

    /**
     * Construct a new instance using the supplied response
     * @param response the response that will be returned to the client, a value
     * of null will be replaced with an internal server error response (status
     * code 500)
     */
    public WebApplicationException(Response response) {
        this(null,response);
    }

    /**
     * Construct a new instance with a blank message and specified HTTP status code
     * @param status the HTTP status code that will be returned to the client
     */
    public WebApplicationException(int status) {
        this(null, status);
    }

    /**
     * Construct a new instance with a blank message and specified HTTP status code
     * @param status the HTTP status code that will be returned to the client
     * @throws IllegalArgumentException if status is null
     */
    public WebApplicationException(Response.Status status) {
        this(null, status);
    }

    /**
     * Construct a new instance with a blank message and default HTTP status code of 500

```

```

* @param cause the underlying cause of the exception
*/
public WebApplicationException(Throwable cause) {
    this(cause,Response.Status.INTERNAL_SERVER_ERROR);
}

/**
* Construct a new instance using the supplied response
* @param response the response that will be returned to the client, a value
* of null will be replaced with an internal server error response (status
* code 500)
* @param cause the underlying cause of the exception
*/
public WebApplicationException(Throwable cause, Response response) {
    super(cause);
    if (response==null)
        this.response = Response.serverError().build();
    else
        this.response = response;
}

/**
* Construct a new instance with a blank message and specified HTTP status code
* @param status the HTTP status code that will be returned to the client
* @param cause the underlying cause of the exception
*/
public WebApplicationException(Throwable cause, int status) {
    this(cause, Response.status(status).build());
}

/**
* Construct a new instance with a blank message and specified HTTP status code
* @param status the HTTP status code that will be returned to the client
* @param cause the underlying cause of the exception
* @throws IllegalArgumentException if status is null
*/
public WebApplicationException(Throwable cause, Response.Status status) {
    this(cause, Response.status(status).build());
}

/**
* Get the HTTP response.
*
* @return the HTTP response.
*/
public Response getResponse() {
    return response;
}

```

```

}
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 */

/*
 * ApplicationPath.java
 *
 * Created on August 21, 2009
 */

package javax.ws.rs;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * Identifies the application path that serves as the base URI
 * for all resource URIs provided by { @link javax.ws.rs.Path }. May only be
 * applied to a subclass of { @link javax.ws.rs.core.Application }.
 *
 * <p>When published in a Servlet container, the value of the application path
 * may be overridden using a servlet-mapping element in the web.xml.</p>
 *
 * @see javax.ws.rs.core.Application
 * @see Path
 * @since 1.1
 */
@Target({ElementType.TYPE})
@Retention(RetentionPolicy.RUNTIME)
public @interface ApplicationPath {
    /**
     * Defines the base URI for all resource URIs. A trailing '/' character will
     * be automatically appended if one is not present.
     *
     * <p>The supplied value is automatically percent
     * encoded to conform to the { @code path } production of

```

```

* { @link <a href="http://tools.ietf.org/html/rfc3986#section-3.3">RFC 3986 section 3.3</a>}.
* Note that percent encoded values are allowed in the value, an
* implementation will recognize such values and will not double
* encode the '%' character.</p>
*/
String value();

}

```

## 8.162 JAXB-Impl 2.2.6

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href="#"><strong>Top of page</strong></a></li><li class="home"><a accesskey="h"
href="index.html"><strong>Front page</strong></a></li><li class="next"><a accesskey="n"
href="Installation_Configuration.html"><strong>Next</strong>Chapter3.Installation/Configuration</a></li></ul><
/body></html>
```

## 8.164 jcabi-maven-slf4j 0.8

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\*/

```
package org.glassfish.jersey.internal.inject;
```

```
import org.glassfish.hk2.api.AnnotationLiteral;
```

```
/**
```

```
 * Custom annotation implementation
```

```
 */
```

```
public class CustomAnnotationImpl extends AnnotationLiteral<Custom> implements Custom {
```

```
    private static final long serialVersionUID = -892565346695359346L;
```

```
 }
```

```
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```

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```
package org.glassfish.jersey.internal.util;
```

```
import java.util.Iterator;
```

```
import javax.xml.XMLConstants;
```

```
import javax.xml.namespace.NamespaceContext;
```

```
/**
```

```
* Simple namespace resolver which resolves one predefined namespace.
```

```
*
```

```
* @author Gerard Davison
```

```
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
```

```
*/
```

```
public class SimpleNamespaceResolver implements NamespaceContext {
    private final String prefix;
    private final String nsURI;
```

```
/**
```



```

* Create a new instance of the namespace resolver initialized with the
* fixed { @code prefix } and { @code URI } that the resolver will be capable to resolve.
*
* @param prefix Namespace prefix.
* @param nsURI Namespace URI.
*/
public SimpleNamespaceResolver(String prefix, String nsURI) {
    this.prefix = prefix;
    this.nsURI = nsURI;
}

@Override
public String getNamespaceURI(String prefix) {
    if (prefix.equals(this.prefix)) {
        return this.nsURI;
    } else {
        return XMLConstants.NULL_NS_URI;
    }
}

@Override
public String getPrefix(String namespaceURI) {
    if (namespaceURI.equals(this.nsURI)) {
        return this.prefix;
    } else {
        return null;
    }
}

@Override
public Iterator getPrefixes(String namespaceURI) {
    return null;
}
}
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```
package org.glassfish.jersey.internal;
```

```
import javax.ws.rs.core.Application;  
import org.glassfish.jersey.internal.inject.Injections;  
import org.glassfish.jersey.message.internal.MessagingBinders;
```

```
/**
```

```
* Default implementation of JAX-RS { @link javax.ws.rs.ext.RuntimeDelegate }.  
* The { @link javax.ws.rs.ext.RuntimeDelegate } class looks for the implementations registered  
* in META-INF/services. If no such implementation is found, this one is picked  
* as the default. Server injection binder should override this (using META-INF/services)  
* to provide an implementation that supports { @link #createEndpoint(javax.ws.rs.core.Application,  
java.lang.Class) }  
* method.
```

```
*
```

```
* @author Jakub Podlesak  
* @author Marek Potociar (marek.potociar at oracle.com)  
* @author Martin Matula (martin.matula at oracle.com)
```

```
*/
```

```
public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {  
    public RuntimeDelegateImpl() {  
        super(Injections.createLocator("jersey-common-rd-locator", new  
MessagingBinders.HeaderDelegateProviders()));
```

```

    }

    @Override
    public <T> T createEndpoint(Application application, Class<T> endpointType) throws
IllegalArgumentException, UnsupportedOperationException {
        throw new UnsupportedOperationException(LocalizationMessages.NO_CONTAINER_AVAILABLE());
    }
}
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*/
package org.glassfish.jersey.message.internal;

```

```

import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.OutputStream;
import java.util.logging.Level;
import java.util.logging.Logger;

import org.glassfish.jersey.internal.LocalizationMessages;

import com.google.common.base.Preconditions;

/**
 * A committing output stream with optional serialized entity buffering functionality
 * which allows measuring of the entity size.
 * <p>
 * When buffering functionality is enabled the output stream buffers
 * the written bytes into an internal buffer of a configurable size. After the last
 * written byte the { @link #commit()} method is expected to be called to notify
 * a { @link org.glassfish.jersey.message.internal.OutboundMessageContext.StreamProvider#getOutputStream(int)
 * callback}
 * with an actual measured entity size. If the entity is too large to
 * fit into the internal buffer and the buffer exceeds before the { @link #commit()}
 * is called then the stream is automatically committed and the callback is called
 * with parameter { @code size} value of { @code -1}.
 * </p>
 * <p>
 * Callback method also returns the output stream in which the output will be written. The committing output stream
 * must be initialized with the callback using
 * { @link #setStreamProvider(org.glassfish.jersey.message.internal.OutboundMessageContext.StreamProvider)}
 * before first byte is written.
 * </p>
 * The buffering is by default disabled and can be enabled by calling { @link #enableBuffering()}
 * or { @link #enableBuffering(int)} before writing the first byte into this output stream. The former
 * method enables buffering with the default size
 * <tt>{@value CommittingOutputStream#DEFAULT_BUFFER_SIZE}</tt> bytes specified in { @link
 * #DEFAULT_BUFFER_SIZE}.
 * </p>
 *
 * @author Paul Sandoz
 * @author Marek Potociar (marek.potociar at oracle.com)
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
final class CommittingOutputStream extends OutputStream {

    private static final Logger LOGGER = Logger.getLogger(CommittingOutputStream.class.getName());
    /**
     * Null stream provider.
     */

```

```

private static final OutboundMessageContext.StreamProvider NULL_STREAM_PROVIDER =
    new OutboundMessageContext.StreamProvider() {
        @Override
        public OutputStream getOutputStream(int contentLength) throws IOException {
            return new NullOutputStream();
        }
    };
/**
 * Default size of the buffer which will be used if no user defined size is specified.
 */
static final int DEFAULT_BUFFER_SIZE = 8192;
/**
 * Adapted output stream.
 */
private OutputStream adaptedOutput;
/**
 * Buffering stream provider.
 */
private OutboundMessageContext.StreamProvider streamProvider;
/**
 * Internal buffer size.
 */
private int bufferSize = 0;
/**
 * Entity buffer.
 */
private ByteArrayOutputStream buffer;
/**
 * When {@code true}, the data are written directly to output stream and not to the buffer.
 */
private boolean directWrite = true;
/**
 * When {@code true}, the stream is already committed (redirected to adaptedOutput).
 */
private boolean isCommitted;
/**
 * When {@code true}, the stream is already closed.
 */
private boolean isClosed;

/**
 * Creates new committing output stream. The returned stream instance still needs to be initialized before
 * writing first bytes.
 */
public CommittingOutputStream() {
}

```

```

/**
 * Set the buffering output stream provider. If the committing output stream works in buffering mode
 * this method must be called before first bytes are written into this stream.
 *
 * @param streamProvider non-null stream provider callback.
 */
public void setStreamProvider(OutboundMessageContext.StreamProvider streamProvider) {
    if (isClosed) {
        throw new IllegalStateException(LocalizationMessages.OUTPUT_STREAM_CLOSED());
    }
    Preconditions.checkNotNull(streamProvider);

    if (this.streamProvider != null) {
        LOGGER.log(Level.WARNING,
LocalizationMessages.COMMITTING_STREAM_ALREADY_INITIALIZED());
    }
    this.streamProvider = streamProvider;
}

/**
 * Enable buffering of the serialized entity.
 *
 * @param bufferSize size of the buffer. When the value is less or equal to zero then
 *         buffering will be disabled and -1 will be passed to the
 *         {@link
org.glassfish.jersey.message.internal.OutboundMessageContext.StreamProvider#getOutputStream(int) callback}.
 */
public void enableBuffering(int bufferSize) {
    Preconditions.checkState(!isCommitted && (this.buffer == null || this.buffer.size() == 0),
        LocalizationMessages.COMMITTING_STREAM_BUFFERING_ILLEGAL_STATE());
    this.bufferSize = bufferSize;
    if (bufferSize <= 0) {
        this.directWrite = true;
        this.buffer = null;
    } else {
        directWrite = false;
        buffer = new ByteArrayOutputStream(bufferSize);
    }
}

/**
 * Enable buffering of the serialized entity with the {@link #DEFAULT_BUFFER_SIZE default buffer size }.
 */
public void enableBuffering() {
    enableBuffering(DEFAULT_BUFFER_SIZE);
}

```

```

/**
 * Determine whether the stream was already committed or not.
 *
 * @return {@code true} if this stream was already committed, {@code false} otherwise.
 */
public boolean isCommitted() {
    return isCommitted;
}

private void commitStream() throws IOException {
    commitStream(-1);
}

private void commitStream(int currentSize) throws IOException {
    if (!isCommitted) {
        Preconditions.checkNotNull(streamProvider, LocalizationMessages.STREAM_PROVIDER_NULL());
        adaptedOutput = streamProvider.getOutputStream(currentSize);
        if (adaptedOutput == null) {
            adaptedOutput = new NullOutputStream();
        }

        directWrite = true;
        isCommitted = true;
    }
}

@Override
public void write(byte b[]) throws IOException {
    if (directWrite) {
        commitStream();
        adaptedOutput.write(b);
    } else {
        if (b.length + buffer.size() > bufferSize) {
            flushBuffer(false);
            adaptedOutput.write(b);
        } else {
            buffer.write(b);
        }
    }
}

@Override
public void write(byte b[], int off, int len) throws IOException {
    if (directWrite) {
        commitStream();
        adaptedOutput.write(b, off, len);
    } else {

```

```

        if (len + buffer.size() > bufferSize) {
            flushBuffer(false);
            adaptedOutput.write(b, off, len);
        } else {
            buffer.write(b, off, len);
        }
    }
}

```

@Override

```

public void write(int b) throws IOException {
    if (directWrite) {
        commitStream();
        adaptedOutput.write(b);
    } else {
        if (buffer.size() + 1 > bufferSize) {
            flushBuffer(false);
            adaptedOutput.write(b);
        } else {
            buffer.write(b);
        }
    }
}

```

/\*\*

\* Commit the output stream.

\*

\* @throws IOException when underlying stream returned from the callback method throws the io exception.

\*/

```

void commit() throws IOException {
    flushBuffer(true);
    commitStream();
}

```

@Override

```

public void close() throws IOException {
    if (isClosed) {
        return;
    }

```

isClosed = true;

```

    if (streamProvider == null) {
        streamProvider = NULL_STREAM_PROVIDER;
    }

```

```

    commit();
    adaptedOutput.close();
}

```



```

/**
 * Check if the committing output stream has been closed already.
 *
 * @return {@code true} if the stream has been closed, {@code false} otherwise.
 */
public boolean isClosed() {
    return isClosed;
}

@Override
public void flush() throws IOException {
    if (isCommitted()) {
        adaptedOutput.flush();
    }
}

private void flushBuffer(boolean endOfStream) throws IOException {
    if (!directWrite) {
        int currentSize;
        if (endOfStream) {
            currentSize = buffer == null ? 0 : buffer.size();
        } else {
            currentSize = -1;
        }

        commitStream(currentSize);
        if (buffer != null) {
            buffer.writeTo(adaptedOutput);
        }
    }
}

}
/**
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*/
package org.glassfish.jersey.message.internal;

import javax.ws.rs.ext.MessageBodyReader;

/**
 * A {@link MessageBodyReader} may implement this interface to signal that
 * reading from the underlying input stream can be fully completed.
 * <p>
 * This is useful in scenarios where an instance of the type will be processed
 * after the input stream, from which it was read, has been closed.
 *
 * @param <T> the type returned from a {@link MessageBodyReader}.
 *
 * @author Paul Sandoz
 * @see MessageBodyReader
 */
public interface CompletableReader<T> {

    /**
     * Complete the reading.
     *
     * @param t an instance of the Type <code>T</code>.
     * @return the complete instance of <code>T</code>.
     */
}

```

```

 */
 T complete(T t);
 }
 /*
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 */
package org.glassfish.jersey.message.internal;

import java.text.ParseException;

import static org.glassfish.jersey.message.internal.GrammarUtil.*;

```

```

/**
 * Concrete internal implementation of pull-based HTTP reader.
 *
 * @author Paul Sandoz
 * @author Martin Matula (martin.matula at oracle.com)
 */
/* package */ final class HttpHeadersReaderImpl extends HttpHeadersReader {

    private String header;
    private boolean processComments;
    private int index;
    private int length;
    private Event event;
    private String value;

    public HttpHeadersReaderImpl(String header, boolean processComments) {
        this.header = (header == null) ? "" : header;
        this.processComments = processComments;
        this.index = 0;
        this.length = this.header.length();
    }

    public HttpHeadersReaderImpl(String header) {
        this(header, false);
    }

    @Override
    public boolean hasNext() {
        return skipWhiteSpace();
    }

    @Override
    public boolean hasNextSeparator(char separator, boolean skipWhiteSpace) {
        if (skipWhiteSpace) {
            skipWhiteSpace();
        }

        if (index >= length) {
            return false;
        }

        char c = header.charAt(index);
        return isSeparator(c) && c == separator;
    }

    @Override
    public String nextSeparatedString(char startSeparator, char endSeparator) throws ParseException {
        nextSeparator(startSeparator);
    }

```

```

final int start = index;
for (; index < length; index++) {
    if (header.charAt(index) == endSeparator) {
        break;
    }
}

if (start == index) {
    // no token between separators
    throw new ParseException("No characters between the separators "
        + "\"" + startSeparator + "\" and \"" + endSeparator + "\"", index);
} else if (index == length) {
    // no end separator
    throw new ParseException("No end separator \"" + endSeparator + "\"", index);
}

event = Event.Token;
return value = header.substring(start, index++);
}

@Override
public Event next() throws ParseException {
    return next(true);
}

@Override
public Event next(boolean skipWhiteSpace) throws ParseException {
    return next(skipWhiteSpace, false);
}

@Override
public Event next(boolean skipWhiteSpace, boolean preserveBackslash) throws ParseException {
    return event = process(getNextCharacter(skipWhiteSpace), preserveBackslash);
}

@Override
public Event getEvent() {
    return event;
}

@Override
public String getEventValue() {
    return value;
}

@Override
public String getRemainder() {
    return (index < length) ? header.substring(index) : null;
}

```

```

}

@Override
public int getIndex() {
    return index;
}

private boolean skipWhiteSpace() {
    for (; index < length; index++) {
        if (!isWhiteSpace(header.charAt(index))) {
            return true;
        }
    }

    return false;
}

private char getNextCharacter(boolean skipWhiteSpace) throws ParseException {
    if (skipWhiteSpace) {
        skipWhiteSpace();
    }

    if (index >= length) {
        throw new ParseException("End of header", index);
    }

    return header.charAt(index);
}

private Event process(char c, boolean preserveBackslash) throws ParseException {
    if (c > 127) {
        index++;
        return Event.Control;
    }

    switch (getType(c)) {
        case TOKEN: {
            final int start = index;
            for (index++; index < length; index++) {
                if (!isToken(header.charAt(index))) {
                    break;
                }
            }
            value = header.substring(start, index);
            return Event.Token;
        }
        case QUOTED_STRING:
            processQuotedString(preserveBackslash);
    }
}

```

```

        return Event.QuotedString;
    case COMMENT:
        if (!processComments) {
            throw new ParseException("Comments are not allowed", index);
        }

        processComment();
        return Event.Comment;
    case SEPARATOR:
        index++;
        value = String.valueOf(c);
        return Event.Separator;
    case CONTROL:
        index++;
        value = String.valueOf(c);
        return Event.Control;
    default:
        // White space
        throw new ParseException("White space not allowed", index);
    }
}

```

```

private void processComment() throws ParseException {
    boolean filter = false;
    int nesting;
    int start;
    for (start = ++index, nesting = 1;
        nesting > 0 && index < length;
        index++) {
        char c = header.charAt(index);
        if (c == '\\') {
            index++;
            filter = true;
        } else if (c == 'r') {
            filter = true;
        } else if (c == '(') {
            nesting++;
        } else if (c == ')') {
            nesting--;
        }
    }
    if (nesting != 0) {
        throw new ParseException("Unbalanced comments", index);
    }
}

```

```

value = (filter
    ? filterToken(header, start, index - 1)
    : header.substring(start, index - 1);

```

```

}

private void processQuotedString(boolean preserveBackslash) throws ParseException {
    boolean filter = false;
    for (int start = ++index; index < length; index++) {
        char c = this.header.charAt(index);
        if (!preserveBackslash && c == '\\') {
            index++;
            filter = true;
        } else if (c == '\r') {
            filter = true;
        } else if (c == '"') {
            value = (filter)
                ? filterToken(header, start, index, preserveBackslash)
                : header.substring(start, index);

            index++;
            return;
        }
    }

    throw new ParseException("Unbalanced quoted string", index);
}
}

```

## 8.170 jersey-ext-proxy-client 2.0

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## 8.173 jetty-7.6.9 V20130131 7.6.9 V20130131

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Corporation name: Simula Labs, Inc.

Mailing Address: 4676 Admiralty Way, Suite 520  
Marina Del Rey, CA 90292

Point of Contact:

Full name: Gordon King

E-Mail: `gordon.king@simulalabs.com`

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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Name	Date added
Simone Bordet	12 September 2006

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

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Version: GnuPG v1.4.1 (GNU/Linux)

iD8DBQFEeAStXR9WPTAwnLARAjsNAJ4jBB6wCEqucFljGge7yrAMSrFv/gCgoMC+  
5hdry6ZjXRcUhQEyNz2F/T4=  
=I4Co

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Full name: Jan Bartel

E-Mail: janb@eclipse.com

Mailing Address: 62 Church St Balmain NSW 2041 Australia

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Version: GnuPG v1.4.1 (GNU/Linux)

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pN0h9U/xdFTRMFsXYFHQeN4=  
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Full name: Jesse C. McConnell

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

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

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Date: December 19 2007

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Version: GnuPG v1.4.6 (GNU/Linux)

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C/W/GuQFfCJJykkL2jd9/Ag=  
=ufUh

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Full name: Jeanfrancois Arcand  
E-Mail: jfarcand@apache.org  
Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal,  
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Date: /28/08/06

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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgaq9Frj/CiRIRAmuJAKCFgi4W0UOH8IU+SV6PBHRF3BnLgCcDqqC  
Zokttk0bTHfwaa5TxQbScw=  
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Version: GnuPG v1.4.1 (Darwin)

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

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Full name: Julian Anthony Fox Gosnell

E-Mail: [jules@coredevelopers.net](mailto:jules@coredevelopers.net)

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Version: GnuPG v1.4.2.1 (GNU/Linux)

iD8DBQFEEbh9SoT4b97cQk4RAnCMAKCuNGYLHa6n/Ot3GEdwCCLeQxsMPACdEhnE  
I/stizRWWZZkeLbcglzdQCE=  
=piHm

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Hash: SHA1

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

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

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6etDJ6AUj0jTuS159hUsWMQ=  
=HmqH

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E-Mail: [simone.bordet@gmail.com](mailto:simone.bordet@gmail.com)

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LBDVaad1bJ1v1EHY901kPcg=  
=6rqm

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Full name: Thomas Becker

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iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl  
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0M12guFkNLDteQp9h2p3Zu9JU3K0y4m84IDWq72HRmh1nRyD6lzZFhDGZ/D+69fF  
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YLAJQQacLeGh7EzD3F+CKuiwT4c5ub64LdXSIAVj1u2OjZBfqLaJ3FA60Ti+I3kn  
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=gAqN

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 RUIoI0BYmYpaETSqxt2oLFU=  
 =Tr57

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//  
// =====  
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//
```

```
package org.eclipse.jetty.http;
```

```
import org.eclipse.jetty.io Buffers;  
import org.eclipse.jetty.io BuffersFactory;
```

```

import org.eclipse.jetty.util.component.AbstractLifeCycle;

/* ----- */
/** Abstract Buffer pool.
 * simple unbounded pool of buffers for header, request and response sizes.
 *
 */
public class HttpBuffersImpl extends AbstractLifeCycle implements HttpBuffers
{
    private int _requestBufferSize=16*1024;
    private int _requestHeaderSize=6*1024;
    private int _responseBufferSize=32*1024;
    private int _responseHeaderSize=6*1024;
    private int _maxBuffers=1024;

    private Buffers.Type _requestBufferType=Buffers.Type.BYTE_ARRAY;
    private Buffers.Type _requestHeaderType=Buffers.Type.BYTE_ARRAY;
    private Buffers.Type _responseBufferType=Buffers.Type.BYTE_ARRAY;
    private Buffers.Type _responseHeaderType=Buffers.Type.BYTE_ARRAY;

    private Buffers _requestBuffers;
    private Buffers _responseBuffers;

    public HttpBuffersImpl()
    {
        super();
    }

    /**
     * @return the requestBufferSize
     */
    public int getRequestBufferSize()
    {
        return _requestBufferSize;
    }

    /**
     * @param requestBufferSize the requestBufferSize to set
     */
    public void setRequestBufferSize(int requestBufferSize)
    {
        _requestBufferSize = requestBufferSize;
    }

    /**
     * @return the requestHeaderSize
     */

```

```

public int getRequestHeaderSize()
{
    return _requestHeaderSize;
}

/**
 * @param requestHeaderSize the requestHeaderSize to set
 */
public void setRequestHeaderSize(int requestHeaderSize)
{
    _requestHeaderSize = requestHeaderSize;
}

/**
 * @return the responseBufferSize
 */
public int getResponseBufferSize()
{
    return _responseBufferSize;
}

/**
 * @param responseBufferSize the responseBufferSize to set
 */
public void setResponseBufferSize(int responseBufferSize)
{
    _responseBufferSize = responseBufferSize;
}

/**
 * @return the responseHeaderSize
 */
public int getResponseHeaderSize()
{
    return _responseHeaderSize;
}

/**
 * @param responseHeaderSize the responseHeaderSize to set
 */
public void setResponseHeaderSize(int responseHeaderSize)
{
    _responseHeaderSize = responseHeaderSize;
}

/**
 * @return the requestBufferType
 */

```

```

public Buffers.Type getRequestBufferType()
{
    return _requestBufferType;
}

/**
 * @param requestBufferType the requestBufferType to set
 */
public void setRequestBufferType(Buffers.Type requestBufferType)
{
    _requestBufferType = requestBufferType;
}

/**
 * @return the requestHeaderType
 */
public Buffers.Type getRequestHeaderType()
{
    return _requestHeaderType;
}

/**
 * @param requestHeaderType the requestHeaderType to set
 */
public void setRequestHeaderType(Buffers.Type requestHeaderType)
{
    _requestHeaderType = requestHeaderType;
}

/**
 * @return the responseBufferType
 */
public Buffers.Type getResponseBufferType()
{
    return _responseBufferType;
}

/**
 * @param responseBufferType the responseBufferType to set
 */
public void setResponseBufferType(Buffers.Type responseBufferType)
{
    _responseBufferType = responseBufferType;
}

/**
 * @return the responseHeaderType
 */

```

```

public Buffers.Type getResponseHeaderType()
{
    return _responseHeaderType;
}

/**
 * @param responseHeaderType the responseHeaderType to set
 */
public void setResponseHeaderType(Buffers.Type responseHeaderType)
{
    _responseHeaderType = responseHeaderType;
}

/**
 * @param requestBuffers the requestBuffers to set
 */
public void setRequestBuffers(Buffers requestBuffers)
{
    _requestBuffers = requestBuffers;
}

/**
 * @param responseBuffers the responseBuffers to set
 */
public void setResponseBuffers(Buffers responseBuffers)
{
    _responseBuffers = responseBuffers;
}

@Override
protected void doStart()
    throws Exception
{
    _requestBuffers=BuffersFactory.newBuffers(_requestHeaderType,_requestHeaderSize,_requestBufferType,_request
    BufferSize,_requestBufferType, getMaxBuffers());
    _responseBuffers=BuffersFactory.newBuffers(_responseHeaderType,_responseHeaderSize,_responseBufferType,_r
    esponseBufferSize,_responseBufferType, getMaxBuffers());
    super.doStart();
}

@Override
protected void doStop()
    throws Exception
{
    _requestBuffers=null;
    _responseBuffers=null;
}

```

```

public Buffers getRequestBuffers()
{
    return _requestBuffers;
}

public Buffers getResponseBuffers()
{
    return _responseBuffers;
}

public void setMaxBuffers(int maxBuffers)
{
    _maxBuffers = maxBuffers;
}

public int getMaxBuffers()
{
    return _maxBuffers;
}

public String toString()
{
    return _requestBuffers+"/"+_responseBuffers;
}
}

```

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## 8.176 jetty-server 8.1.7 V20120912

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# 8.177 jledit-core 0.2.1

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```

package org.jledit.simple;

import jline.Terminal;
import jline.console.KeyMap;
import org.fusesource.jansi.Ansi;
import org.jledit.command.Command;
import org.jledit.command.CommandNotFoundException;
import org.jledit.command.editor.BackspaceCommand;
import org.jledit.command.editor.DeleteCommand;
import org.jledit.command.editor.FindCommand;
import org.jledit.command.editor.FindNextCommand;
import org.jledit.command.editor.FindPreviousCommand;
import org.jledit.command.editor.GoToCommand;
import org.jledit.command.editor.MoveCursorDownCommand;
import org.jledit.command.editor.MoveCursorLeftCommand;
import org.jledit.command.editor.MoveCursorRightCommand;
import org.jledit.command.editor.MoveCursorToEndOfLineCommand;
import org.jledit.command.editor.MoveCursorToStartOfLineCommand;
import org.jledit.command.editor.MoveCursorUpCommand;
import org.jledit.command.editor.NewLineCommand;
import org.jledit.command.editor.PasteCommand;
import org.jledit.command.editor.QuitCommand;
import org.jledit.command.editor.TypeCommand;
import org.jledit.command.file.FileCloseCommand;
import org.jledit.command.file.FileOpenCommand;
import org.jledit.command.file.FileSaveCommand;
import org.jledit.command.undo.RedoCommand;
import org.jledit.command.undo.UndoCommand;
import org.jledit.AbstractConsoleEditor;
import org.jledit.EditorOperation;
import org.jledit.EditorOperationType;
import org.jledit.utils.Strings;
import org.jledit.utils.internal.KeyMaps;

import java.io.InputStream;
import java.io.PrintStream;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;

import static org.fusesource.jansi.Ansi.ansi;

```

```

public class SimpleConsoleEditor extends AbstractConsoleEditor {

    private final Map<String, String> supportedOperations = new LinkedHashMap<String, String>();
    private final List<String> helpLines = new LinkedList<String>();

    public SimpleConsoleEditor(Terminal terminal, InputStream in, PrintStream out) throws Exception {
        super(terminal, in, out);
        setKeys(createKeyMap());
        supportedOperations.put("^O", "Open");
        supportedOperations.put("^X", "Quit");
        supportedOperations.put("^S", "Save");
        supportedOperations.put("^Z", "Undo");
        supportedOperations.put("^R", "Redo");
        supportedOperations.put("^G", "Go To");
        supportedOperations.put("^F", "Find");
        supportedOperations.put("^N", "Next");
        supportedOperations.put("^P", "Previous");
        addHelpLines(helpLines);
        setFooterSize(helpLines.size() + 1);
    }

    public void redrawHeader() {
        saveCursorPosition();
        getConsole().out().print(ansi().cursor(1, 1));
        Ansi style = ansi();
        if (getTheme().getHeaderBackground() != null) {
            style.bg(getTheme().getHeaderBackground());
        }
        if (getTheme().getHeaderForeground() != null) {
            style.fg(getTheme().getHeaderForeground());
        }
        String textCoords = "L:" + getLine() + " C:" + getColumn();
        int displayFileLength = getTerminal().getWidth() - getTitle().length() - textCoords.length() - 1;
        getConsole().out().print(style.a(getTitle()).a(":").a(Strings.tryTrimToSize(getDisplayAs(),
displayFileLength)).a(isDirty() ? DIRTY_SIGN : "").eraseLine(Ansi.Erase.FORWARD));
        getConsole().out().print(ansi().cursor(1, getTerminal().getWidth() - textCoords.length()));
        getConsole().out().print(ansi().a(textCoords).reset());
        getConsole().out().print(ansi().cursor(getTerminal().getHeight(), 1));
        restoreCursorPosition();
    }

    /**
     * Refreshes the footer that displays the current line and column.
     */
    public void redrawFooter() {
        saveCursorPosition();
        Ansi style = ansi();

```



```

    if (getTheme().getFooterBackground() != null) {
        style.bg(getTheme().getFooterBackground());
    }
    if (getTheme().getFooterForeground() != null) {
        style.fg(getTheme().getFooterForeground());
    }
    getConsole().out().print(style);
    getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize(),
1).eraseLine(Ansi.Erase.FORWARD));
    for (int i = 1; i <= helpLines.size(); i++) {
        String helpLine = helpLines.get(i - 1);
        int startColumn = (getTerminal().getWidth() - helpLine.length()) / 2;
        getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize() + i,
1).eraseLine(Ansi.Erase.FORWARD));
        getConsole().out().print(ansi().cursor(getTerminal().getHeight() + 1 - getFooterSize() + i, startColumn));
        getConsole().out().print(helpLine);
    }
    getConsole().out().print(ansi().reset());
    restoreCursorPosition();
}

/**
 * Redraws the cursor coordinates if the flavor supports that.
 */
@Override
public void redrawCoords() {
    //We redraw the full header to prevent glitches with the coordinates.
    redrawHeader();
}

private void addHelpLines(List<String> helpLines) {
    helpLines.clear();
    StringBuilder sb = new StringBuilder();
    boolean startOfLine = true;
    for (Map.Entry<String, String> entry : supportedOperations.entrySet()) {
        String key = entry.getKey();
        String desc = entry.getValue();
        String txt;
        if (startOfLine) {
            txt = key + " " + desc;
            startOfLine = false;
        } else {
            txt = "    " + key + " " + desc;
        }
        if (txt.length() + sb.length() > getTerminal().getWidth()) {
            helpLines.add(sb.toString());
            sb.delete(0, sb.length());
            startOfLine = true;
        }
    }
}

```

```

    }
    sb.append(txt);
}
helpLines.add(sb.toString());
}

```

@Override

```

public Command create(EditorOperation operation) throws CommandNotFoundException {
    switch (operation.getType()) {
        case TYPE:
            return new TypeCommand(this, operation.getInput());
        case NEWLINE:
            return new NewLineCommand(this);
        case BACKSPACE:
            return new BackspaceCommand(this);
        case DELETE:
            return new DeleteCommand(this);
        case PASTE:
            return new PasteCommand(this);
        //Cursor operations
        case HOME:
            return new MoveCursorToStartOfLineCommand(this);
        case END:
            return new MoveCursorToEndOfLineCommand(this);
        case UP:
            return new MoveCursorUpCommand(this);
        case DOWN:
            return new MoveCursorDownCommand(this);
        case LEFT:
            return new MoveCursorLeftCommand(this);
        case RIGHT:
            return new MoveCursorRightCommand(this);
        //File Operations
        case SAVE:
            return new FileSaveCommand(this);
        case OPEN:
            return new FileOpenCommand(this, null);
        case CLOSE:
            return new FileCloseCommand(this);
        case QUIT:
            return new QuitCommand(this);
        //UNDO & REDO
        case UNDO:
            return new UndoCommand(this, getUndoContext());
        case REDO:
            return new RedoCommand(getUndoContext());
        case FIND:
            return new FindCommand(this);
    }
}

```

```

    case FIND_NEXT:
        return new FindNextCommand(this, null);
    case FIND_PREVIOUS:
        return new FindPreviousCommand(this, null);
    case GOTO:
        return new GoToCommand(this);

}
throw new CommandNotFoundException("Could not find command for Operation");
}

private KeyMap createKeyMap() {
    Object[] ctrl = new Object[]{
        // Control keys.
        null,          /* Control-@ */
        null,          /* Control-A */
        null,          /* Control-B */
        null,          /* Control-C */
        null,          /* Control-D */
        null,          /* Control-E */
        EditorOperationType.FIND,    /* Control-F */
        EditorOperationType.GOTO,    /* Control-G */
        EditorOperationType.BACKSPACE, /* Control-H */
        null,          /* Control-I */
        EditorOperationType.NEWLINE, /* Control-J */
        null,          /* Control-K */
        null,          /* Control-L */
        EditorOperationType.NEWLINE, /* Control-M */
        EditorOperationType.FIND_NEXT, /* Control-N */
        EditorOperationType.OPEN,    /* Control-O */
        EditorOperationType.FIND_PREVIOUS, /* Control-P */
        EditorOperationType.QUIT,    /* Control-Q */
        EditorOperationType.REDO,    /* Control-R */
        EditorOperationType.SAVE,    /* Control-S */
        null,          /* Control-T */
        EditorOperationType.UNDO,    /* Control-U */
        EditorOperationType.PASTE,   /* Control-V */
        null,          /* Control-W */
        EditorOperationType.QUIT,    /* Control-X */
        null,          /* Control-Y */
        EditorOperationType.UNDO,    /* Control-Z */
        null,          /* Control-[ */
        null,          /* Control-\ */
        null,          /* Control-] */
        null,          /* Control-^ */
        null,          /* Control-_ */
    };
}

```

```

KeyMap simpleKeyMap = new KeyMap("simple", false);
for (char c = 0; c < ctrl.length; c++) {
    simpleKeyMap.bind(Character.toString(c), ctrl[c]);
}
for (char c = 32; c < 256; c++) {
    simpleKeyMap.bind(Character.toString(c), EditorOperationType.TYPE);
}
simpleKeyMap.bind(Character.toString((char) 127), EditorOperationType.BACKSPACE);
KeyMaps.bindArrowKeys(simpleKeyMap);
return simpleKeyMap;
}

@Override
public void setDirty(Boolean dirty) {
    super.setDirty(dirty);
    redrawHeader();
}

@Override
public void setReadOnly(boolean readOnly) {
    super.setReadOnly(readOnly);
    if (readOnly) {
        supportedOperations.remove("^S");
    } else {
        supportedOperations.put("^S", "Save");
    }
    addHelpLines(helpLines);
}

@Override
public void setOpenEnabled(boolean openEnabled) {
    super.setOpenEnabled(openEnabled);
    if (!openEnabled) {
        supportedOperations.remove("^O");
    } else {
        supportedOperations.put("^O", "Open");
    }
    addHelpLines(helpLines);
}
}
}

```

## 8.178 jline-jar 2.11

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```

/*
 * Copyright (c) 2002-2012, the original author or authors.
 *

```

```

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* BSD license in the documentation provided with this software.
*
* http://www.opensource.org/licenses/bsd-license.php
*/
package jline.console.completer;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer which contains multiple completers and aggregates them together.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class AggregateCompleter
    implements Completer
{
    private final List<Completer> completers = new ArrayList<Completer>();

    public AggregateCompleter() {
        // empty
    }

    /**
     * Construct an AggregateCompleter with the given collection of completers.
     * The completers will be used in the iteration order of the collection.
     *
     * @param completers the collection of completers
     */
    public AggregateCompleter(final Collection<Completer> completers) {
        checkNotNull(completers);
        this.completers.addAll(completers);
    }

    /**
     * Construct an AggregateCompleter with the given completers.
     * The completers will be used in the order given.
     *
     * @param completers the completers
     */
    public AggregateCompleter(final Completer... completers) {

```

```

        this(Arrays.asList(completers));
    }

    /**
     * Retrieve the collection of completers currently being aggregated.
     *
     * @return the aggregated completers
     */
    public Collection<Completer> getCompleters() {
        return completers;
    }

    /**
     * Perform a completion operation across all aggregated completers.
     *
     * @see Completer#complete(String, int, java.util.List)
     * @return the highest completion return value from all completers
     */
    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer could be null
        checkNotNull(candidates);

        List<Completion> completions = new ArrayList<Completion>(completers.size());

        // Run each completer, saving its completion results
        int max = -1;
        for (Completer completer : completers) {
            Completion completion = new Completion(candidates);
            completion.complete(completer, buffer, cursor);

            // Compute the max cursor position
            max = Math.max(max, completion.cursor);

            completions.add(completion);
        }

        // Append candidates from completions which have the same cursor position as max
        for (Completion completion : completions) {
            if (completion.cursor == max) {
                candidates.addAll(completion.candidates);
            }
        }

        return max;
    }

    /**
     * @return a string representing the aggregated completers

```

```

*/
@Override
public String toString() {
    return getClass().getSimpleName() + "{" +
        "completers=" + completers +
        '}';
}

private class Completion
{
    public final List<CharSequence> candidates;

    public int cursor;

    public Completion(final List<CharSequence> candidates) {
        checkNotNull(candidates);
        this.candidates = new LinkedList<CharSequence>(candidates);
    }

    public void complete(final Completer completer, final String buffer, final int cursor) {
        checkNotNull(completer);
        this.cursor = completer.complete(buffer, cursor, candidates);
    }
}
}
/*
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*
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* BSD license in the documentation provided with this software.
*
* http://www.opensource.org/licenses/bsd-license.php
*/
package jline.console.completer;

import jline.internal.Log;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A {@link Completer} implementation that invokes a child completer using the appropriate <i>separator</i>
 * argument.

```

\* This can be used instead of the individual completers having to know about argument parsing semantics.

\*

\* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>

\* @author <a href="mailto:jason@planet57.com">Jason Dillon</a>

\* @since 2.3

\*/

```
public class ArgumentCompleter
```

```
    implements Completer
```

```
{
```

```
    private final ArgumentDelimiter delimiter;
```

```
    private final List<Completer> completers = new ArrayList<Completer>();
```

```
    private boolean strict = true;
```

```
    /**
```

```
     * Create a new completer with the specified argument delimiter.
```

```
     *
```

```
     * @param delimiter    The delimiter for parsing arguments
```

```
     * @param completers  The embedded completers
```

```
     */
```

```
    public ArgumentCompleter(final ArgumentDelimiter delimiter, final Collection<Completer> completers) {
```

```
        this.delimiter = checkNotNull(delimiter);
```

```
        checkNotNull(completers);
```

```
        this.completers.addAll(completers);
```

```
    }
```

```
    /**
```

```
     * Create a new completer with the specified argument delimiter.
```

```
     *
```

```
     * @param delimiter    The delimiter for parsing arguments
```

```
     * @param completers  The embedded completers
```

```
     */
```

```
    public ArgumentCompleter(final ArgumentDelimiter delimiter, final Completer... completers) {
```

```
        this(delimiter, Arrays.asList(completers));
```

```
    }
```

```
    /**
```

```
     * Create a new completer with the default { @link WhitespaceArgumentDelimiter}.
```

```
     *
```

```
     * @param completers  The embedded completers
```

```
     */
```

```
    public ArgumentCompleter(final Completer... completers) {
```

```
        this(new WhitespaceArgumentDelimiter(), completers);
```

```
    }
```

```
    /**
```

```
     * Create a new completer with the default { @link WhitespaceArgumentDelimiter}.
```



```

*
* @param completers The embedded completers
*/
public ArgumentCompleter(final List<Completer> completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
* If true, a completion at argument index N will only succeed
* if all the completions from 0-(N-1) also succeed.
*/
public void setStrict(final boolean strict) {
    this.strict = strict;
}

/**
* Returns whether a completion at argument index N will success
* if all the completions from arguments 0-(N-1) also succeed.
*
* @return True if strict.
* @since 2.3
*/
public boolean isStrict() {
    return this.strict;
}

/**
* @since 2.3
*/
public ArgumentDelimiter getDelimiter() {
    return delimiter;
}

/**
* @since 2.3
*/
public List<Completer> getCompleters() {
    return completers;
}

public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer can be null
    checkNotNull(candidates);

    ArgumentDelimiter delim = getDelimiter();
    ArgumentList list = delim.delimit(buffer, cursor);
    int argpos = list.getArgumentPosition();
    int argIndex = list.getCursorArgumentIndex();

```

```

if (argIndex < 0) {
    return -1;
}

List<Completer> completers = getCompleters();
Completer completer;

// if we are beyond the end of the completers, just use the last one
if (argIndex >= completers.size()) {
    completer = completers.get(completers.size() - 1);
}
else {
    completer = completers.get(argIndex);
}

// ensure that all the previous completers are successful before allowing this completer to pass (only if strict).
for (int i = 0; isStrict() && (i < argIndex); i++) {
    Completer sub = completers.get(i >= completers.size() ? (completers.size() - 1) : i);
    String[] args = list.getArguments();
    String arg = (args == null || i >= args.length) ? "" : args[i];

    List<CharSequence> subCandidates = new LinkedList<CharSequence>();

    if (sub.complete(arg, arg.length(), subCandidates) == -1) {
        return -1;
    }

    if (subCandidates.size() == 0) {
        return -1;
    }
}

int ret = completer.complete(list.getCursorArgument(), argpos, candidates);

if (ret == -1) {
    return -1;
}

int pos = ret + list.getBufferPosition() - argpos;

// Special case: when completing in the middle of a line, and the area under the cursor is a delimiter,
// then trim any delimiters from the candidates, since we do not need to have an extra delimiter.
//
// E.g., if we have a completion for "foo", and we enter "f bar" into the buffer, and move to after the "f"
// and hit TAB, we want "foo bar" instead of "foo bar".

if ((cursor != buffer.length()) && delim.isDelimiter(buffer, cursor)) {

```

```

    for (int i = 0; i < candidates.size(); i++) {
        CharSequence val = candidates.get(i);

        while (val.length() > 0 && delim.isDelimiter(val, val.length() - 1)) {
            val = val.subSequence(0, val.length() - 1);
        }

        candidates.set(i, val);
    }
}

Log.trace("Completing ", buffer, " (pos=", cursor, ") with: ", candidates, ": offset=", pos);

return pos;
}

/**
 * The {@link ArgumentCompleter.ArgumentDelimiter} allows custom breaking up of a {@link String} into
individual
 * arguments in order to dispatch the arguments to the nested {@link Completer}.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static interface ArgumentDelimiter
{
    /**
     * Break the specified buffer into individual tokens that can be completed on their own.
     *
     * @param buffer The buffer to split
     * @param pos The current position of the cursor in the buffer
     * @return The tokens
     */
    ArgumentList delimit(CharSequence buffer, int pos);

    /**
     * Returns true if the specified character is a whitespace parameter.
     *
     * @param buffer The complete command buffer
     * @param pos The index of the character in the buffer
     * @return True if the character should be a delimiter
     */
    boolean isDelimiter(CharSequence buffer, int pos);
}

/**
 * Abstract implementation of a delimiter that uses the {@link #isDelimiter} method to determine if a particular
 * character should be used as a delimiter.
 *
 */

```

```

* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
*/
public abstract static class AbstractArgumentDelimiter
    implements ArgumentDelimiter
{
    // TODO: handle argument quoting and escape characters

    private char[] quoteChars = {"\"", ""};

    private char[] escapeChars = {"\\"};

    public void setQuoteChars(final char[] chars) {
        this.quoteChars = chars;
    }

    public char[] getQuoteChars() {
        return this.quoteChars;
    }

    public void setEscapeChars(final char[] chars) {
        this.escapeChars = chars;
    }

    public char[] getEscapeChars() {
        return this.escapeChars;
    }

    public ArgumentList delimit(final CharSequence buffer, final int cursor) {
        List<String> args = new LinkedList<String>();
        StringBuilder arg = new StringBuilder();
        int argpos = -1;
        int bindex = -1;

        for (int i = 0; (buffer != null) && (i <= buffer.length()); i++) {
            // once we reach the cursor, set the
            // position of the selected index
            if (i == cursor) {
                bindex = args.size();
                // the position in the current argument is just the
                // length of the current argument
                argpos = arg.length();
            }

            if ((i == buffer.length()) || isDelimiter(buffer, i)) {
                if (arg.length() > 0) {
                    args.add(arg.toString());
                    arg.setLength(0); // reset the arg
                }
            }
        }
    }
}

```

```

    }
    else {
        arg.append(buffer.charAt(i));
    }
}

return new ArgumentList(args.toArray(new String[args.size()]), bindindex, argpos, cursor);
}

/**
 * Returns true if the specified character is a whitespace parameter. Check to ensure that the character is not
 * escaped by any of { @link #getQuoteChars }, and is not escaped by any of the { @link #getEscapeChars }, and
 * returns true from { @link #isDelimiterChar }.
 *
 * @param buffer The complete command buffer
 * @param pos The index of the character in the buffer
 * @return True if the character should be a delimiter
 */
public boolean isDelimiter(final CharSequence buffer, final int pos) {
    return !isQuoted(buffer, pos) && !isEscaped(buffer, pos) && isDelimiterChar(buffer, pos);
}

public boolean isQuoted(final CharSequence buffer, final int pos) {
    return false;
}

public boolean isEscaped(final CharSequence buffer, final int pos) {
    if (pos <= 0) {
        return false;
    }

    for (int i = 0; (escapeChars != null) && (i < escapeChars.length);
        i++) {
        if (buffer.charAt(pos) == escapeChars[i]) {
            return !isEscaped(buffer, pos - 1); // escape escape
        }
    }

    return false;
}

/**
 * Returns true if the character at the specified position is a delimiter. This method will only be called if
 * the character is not enclosed in any of the { @link #getQuoteChars }, and is not escaped by any of the
 * { @link #getEscapeChars }. To perform escaping manually, override { @link #isDelimiter } instead.
 */
public abstract boolean isDelimiterChar(CharSequence buffer, int pos);
}

```

```

/**
 * {@link ArgumentCompleter.ArgumentDelimiter} implementation that counts all whitespace (as reported by
 * {@link Character#isWhitespace}) as being a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class WhitespaceArgumentDelimiter
    extends AbstractArgumentDelimiter
{
    /**
     * The character is a delimiter if it is whitespace, and the
     * preceding character is not an escape character.
     */
    @Override
    public boolean isDelimiterChar(final CharSequence buffer, final int pos) {
        return Character.isWhitespace(buffer.charAt(pos));
    }
}

/**
 * The result of a delimited buffer.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class ArgumentList
{
    private String[] arguments;

    private int cursorArgumentIndex;

    private int argumentPosition;

    private int bufferPosition;

    /**
     * @param arguments      The array of tokens
     * @param cursorArgumentIndex  The token index of the cursor
     * @param argumentPosition  The position of the cursor in the current token
     * @param bufferPosition   The position of the cursor in the whole buffer
     */
    public ArgumentList(final String[] arguments, final int cursorArgumentIndex, final int argumentPosition, final
int bufferPosition) {
        this.arguments = checkNotNull(arguments);
        this.cursorArgumentIndex = cursorArgumentIndex;
        this.argumentPosition = argumentPosition;
        this.bufferPosition = bufferPosition;
    }
}

```

```

public void setCursorArgumentIndex(final int i) {
    this.cursorArgumentIndex = i;
}

public int getCursorArgumentIndex() {
    return this.cursorArgumentIndex;
}

public String getCursorArgument() {
    if ((cursorArgumentIndex < 0) || (cursorArgumentIndex >= arguments.length)) {
        return null;
    }

    return arguments[cursorArgumentIndex];
}

public void setArgumentPosition(final int pos) {
    this.argumentPosition = pos;
}

public int getArgumentPosition() {
    return this.argumentPosition;
}

public void setArguments(final String[] arguments) {
    this.arguments = arguments;
}

public String[] getArguments() {
    return this.arguments;
}

public void setBufferPosition(final int pos) {
    this.bufferPosition = pos;
}

public int getBufferPosition() {
    return this.bufferPosition;
}
}
}
/*
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* BSD license in the documentation provided with this software.
*

```

```

* http://www.opensource.org/licenses/bsd-license.php
*/
package jline.console.completer;

import jline.console.ConsoleReader;
import jline.console.CursorBuffer;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.ResourceBundle;
import java.util.Set;

/**
 * A {@link CompletionHandler} that deals with multiple distinct completions
 * by outputting the complete list of possibilities to the console. This
 * mimics the behavior of the
 * readline library.
 *
 * @author Marc Prud'hommeaux
 * @author Jason Dillon
 * @since 2.3
 */
public class CandidateListCompletionHandler
    implements CompletionHandler
{
    // TODO: handle quotes and escaped quotes && enable automatic escaping of whitespace

    public boolean complete(final ConsoleReader reader, final List<CharSequence> candidates, final int pos) throws
        IOException
    {
        CursorBuffer buf = reader.getCursorBuffer();

        // if there is only one completion, then fill in the buffer
        if (candidates.size() == 1) {
            CharSequence value = candidates.get(0);

            // fail if the only candidate is the same as the current buffer
            if (value.equals(buf.toString())) {
                return false;
            }

            setBuffer(reader, value, pos);

            return true;
        }
    }
}

```



```

    }
    else if (candidates.size() > 1) {
        String value = getUnambiguousCompletions(candidates);
        setBuffer(reader, value, pos);
    }

    printCandidates(reader, candidates);

    // redraw the current console buffer
    reader.drawLine();

    return true;
}

public static void setBuffer(final ConsoleReader reader, final CharSequence value, final int offset) throws
    IOException
{
    while ((reader.getCursorBuffer().cursor > offset) && reader.backspace()) {
        // empty
    }

    reader.putString(value);
    reader.setCursorPosition(offset + value.length());
}

/**
 * Print out the candidates. If the size of the candidates is greater than the
 * {@link ConsoleReader#getAutoprintThreshold}, they prompt with a warning.
 *
 * @param candidates the list of candidates to print
 */
public static void printCandidates(final ConsoleReader reader, Collection<CharSequence> candidates) throws
    IOException
{
    Set<CharSequence> distinct = new HashSet<CharSequence>(candidates);

    if (distinct.size() > reader.getAutoprintThreshold()) {
        //noinspection StringConcatenation
        reader.print(Messages.DISPLAY_CANDIDATES.format(candidates.size()));
        reader.flush();

        int c;

        String noOpt = Messages.DISPLAY_CANDIDATES_NO.format();
        String yesOpt = Messages.DISPLAY_CANDIDATES_YES.format();
        char[] allowed = {yesOpt.charAt(0), noOpt.charAt(0)};

        while ((c = reader.readCharacter(allowed)) != -1) {

```

```

String tmp = new String(new char[] {(char) c});

if (noOpt.startsWith(tmp)) {
    reader.println();
    return;
}
else if (yesOpt.startsWith(tmp)) {
    break;
}
else {
    reader.beep();
}
}

// copy the values and make them distinct, without otherwise affecting the ordering. Only do it if the sizes differ.
if (distinct.size() != candidates.size()) {
    Collection<CharSequence> copy = new ArrayList<CharSequence>();

    for (CharSequence next : candidates) {
        if (!copy.contains(next)) {
            copy.add(next);
        }
    }

    candidates = copy;
}

reader.println();
reader.printColumns(candidates);
}

/**
 * Returns a root that matches all the {@link String} elements of the specified {@link List},
 * or null if there are no commonalities. For example, if the list contains
 * <i>foobar</i>, <i>foobaz</i>, <i>foobuz</i>, the method will return <i>foob</i>.
 */
private String getUnambiguousCompletions(final List<CharSequence> candidates) {
    if (candidates == null || candidates.isEmpty()) {
        return null;
    }

    // convert to an array for speed
    String[] strings = candidates.toArray(new String[candidates.size()]);

    String first = strings[0];
    StringBuilder candidate = new StringBuilder();

```

```

    for (int i = 0; i < first.length(); i++) {
        if (startsWith(first.substring(0, i + 1), strings)) {
            candidate.append(first.charAt(i));
        }
        else {
            break;
        }
    }

    return candidate.toString();
}

/**
 * @return true is all the elements of <i>candidates</i> start with <i>starts</i>
 */
private boolean startsWith(final String starts, final String[] candidates) {
    for (String candidate : candidates) {
        if (!candidate.startsWith(starts)) {
            return false;
        }
    }

    return true;
}

private static enum Messages
{
    DISPLAY_CANDIDATES,
    DISPLAY_CANDIDATES_YES,
    DISPLAY_CANDIDATES_NO;

    private static final
    ResourceBundle
    bundle =
        ResourceBundle.getBundle(CandidateListCompletionHandler.class.getName(), Locale.getDefault());

    public String format(final Object... args) {
        if (bundle == null)
            return "";
        else
            return String.format(bundle.getString(name()), args);
    }
}

/**
 * Copyright (c) 2002-2012, the original author or authors.
 *
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```

```

* BSD license in the documentation provided with this software.
*
* http://www.opensource.org/licenses/bsd-license.php
*/
package jline.console.completer;

import java.util.List;

/**
 * A completer is the mechanism by which tab-completion candidates will be resolved.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface Completer
{
    //
    // FIXME: Check if we can use CharSequece for buffer?
    //

    /**
     * Populates <i>candidates</i> with a list of possible completions for the <i>buffer</i>.
     *
     * The <i>candidates</i> list will not be sorted before being displayed to the user: thus, the
     * complete method should sort the { @link List} before returning.
     *
     * @param buffer    The buffer
     * @param cursor    The current position of the cursor in the <i>buffer</i>
     * @param candidates The { @link List} of candidates to populate
     * @return          The index of the <i>buffer</i> for which the completion will be relative
     */
    int complete(String buffer, int cursor, List<CharSequence> candidates);
}
/**
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 *
 * This software is distributable under the BSD license. See the terms of the
 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import jline.console.ConsoleReader;

import java.io.IOException;
import java.util.List;

```

```

/**
 * Handler for dealing with candidates for tab-completion.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface CompletionHandler
{
    boolean complete(ConsoleReader reader, List<CharSequence> candidates, int position) throws IOException;
}
/*
 * Copyright (c) 2002-2012, the original author or authors.
 *
 * This software is distributable under the BSD license. See the terms of the
 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import static jline.internal.Preconditions.checkNotNull;

/**
 * { @link Completer } for { @link Enum } names.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class EnumCompleter
    extends StringsCompleter
{
    public EnumCompleter(Class<? extends Enum> source) {
        checkNotNull(source);

        for (Enum<?> n : source.getEnumConstants()) {
            this.getStrings().add(n.name().toLowerCase());
        }
    }
}
/*
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 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php

```

```

*/
package jline.console.completer;

import jline.internal.Configuration;

import java.io.File;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A file name completer takes the buffer and issues a list of
 * potential completions.
 * <p/>
 * This completer tries to behave as similar as possible to
 * <i>bash</i>'s file name completion (using GNU readline)
 * with the following exceptions:
 * <p/>
 * <ul>
 * <li>Candidates that are directories will end with "/"</li>
 * <li>Wildcard regular expressions are not evaluated or replaced</li>
 * <li>The "~" character can be used to represent the user's home,
 * but it cannot complete to other users' homes, since java does
 * not provide any way of determining that easily</li>
 * </ul>
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class FileNameCompleter
    implements Completer
{
    // TODO: Handle files with spaces in them

    private static final boolean OS_IS_WINDOWS;

    static {
        String os = Configuration.getOsName();
        OS_IS_WINDOWS = os.contains("windows");
    }

    public int complete(String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer can be null
        checkNotNull(candidates);

        if (buffer == null) {
            buffer = "";

```

```

    }

    if (OS_IS_WINDOWS) {
        buffer = buffer.replace('/', '\\');
    }

    String translated = buffer;

    File homeDir = getUserHome();

    // Special character: ~ maps to the user's home directory
    if (translated.startsWith("~" + separator())) {
        translated = homeDir.getPath() + translated.substring(1);
    }
    else if (translated.startsWith("~")) {
        translated = homeDir.getParentFile().getAbsolutePath();
    }
    else if (!(translated.startsWith(separator()))) {
        String cwd = getUserDir().getAbsolutePath();
        translated = cwd + separator() + translated;
    }

    File file = new File(translated);
    final File dir;

    if (translated.endsWith(separator())) {
        dir = file;
    }
    else {
        dir = file.getParentFile();
    }

    File[] entries = dir == null ? new File[0] : dir.listFiles();

    return matchFiles(buffer, translated, entries, candidates);
}

protected String separator() {
    return File.separator;
}

protected File getUserHome() {
    return Configuration.getUserHome();
}

protected File getUserDir() {
    return new File(".");
}

```

```

protected int matchFiles(final String buffer, final String translated, final File[] files, final List<CharSequence>
candidates) {
    if (files == null) {
        return -1;
    }

    int matches = 0;

    // first pass: just count the matches
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            matches++;
        }
    }
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            CharSequence name = file.getName() + (matches == 1 && file.isDirectory() ? separator() : " ");
            candidates.add(render(file, name).toString());
        }
    }

    final int index = buffer.lastIndexOf(separator());

    return index + separator().length();
}

protected CharSequence render(final File file, final CharSequence name) {
    return name;
}
}
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 *
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 */
package jline.console.completer;

import java.util.List;

/**
 * Null completer.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>

```



```

* @since 2.3
*/
public final class NullCompleter
    implements Completer
{
    public static final NullCompleter INSTANCE = new NullCompleter();

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        return -1;
    }
}
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* http://www.opensource.org/licenses/bsd-license.php
*/
package jline.console.completer;

import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.SortedSet;
import java.util.TreeSet;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer for a set of strings.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class StringsCompleter
    implements Completer
{
    private final SortedSet<String> strings = new TreeSet<String>();

    public StringsCompleter() {
        // empty
    }

    public StringsCompleter(final Collection<String> strings) {
        checkNotNull(strings);
        getStrings().addAll(strings);
    }
}

```

```

public StringsCompleter(final String... strings) {
    this(Arrays.asList(strings));
}

public Collection<String> getStrings() {
    return strings;
}

public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer could be null
    checkNotNull(candidates);

    if (buffer == null) {
        candidates.addAll(strings);
    }
    else {
        for (String match : strings.tailSet(buffer)) {
            if (!match.startsWith(buffer)) {
                break;
            }

            candidates.add(match);
        }
    }

    if (candidates.size() == 1) {
        candidates.set(0, candidates.get(0) + " ");
    }

    return candidates.isEmpty() ? -1 : 0;
}
}
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#

DISPLAY_CANDIDATES=Display all %d possibilities? (y or n)
DISPLAY_CANDIDATES_YES=y
DISPLAY_CANDIDATES_NO=n
DISPLAY_MORE=--More--

```

## 8.179 JSON in Java 20131018

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## 8.180 jul-to-slf4j 1.7.5

## 8.181 karaf 2.3.3

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## 8.183 leveldb 0.7

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```
package org.iq80.leveldb.impl;
```

```
import com.google.common.base.Preconditions;
import com.google.common.base.Throwables;
import com.google.common.collect.Lists;
import com.google.common.util.concurrent.ThreadFactoryBuilder;
import org.iq80.leveldb.CompressionType;
import org.iq80.leveldb.DB;
import org.iq80.leveldb.DBComparator;
import org.iq80.leveldb.DBException;
import org.iq80.leveldb.Options;
import org.iq80.leveldb.Range;
import org.iq80.leveldb.ReadOptions;
import org.iq80.leveldb.Snapshot;
import org.iq80.leveldb.WriteBatch;
import org.iq80.leveldb.WriteOptions;
import org.iq80.leveldb.impl.Filename.FileInfo;
import org.iq80.leveldb.impl.Filename.FileType;
import org.iq80.leveldb.impl.MemTable.MemTableIterator;
import org.iq80.leveldb.impl.WriteBatchImpl.Handler;
import org.iq80.leveldb.table.BytewiseComparator;
import org.iq80.leveldb.table.CustomUserComparator;
import org.iq80.leveldb.table.TableBuilder;
import org.iq80.leveldb.table.UserComparator;
import org.iq80.leveldb.util.DbIterator;
import org.iq80.leveldb.util.MergingIterator;
import org.iq80.leveldb.util.Slice;
import org.iq80.leveldb.util.SliceInput;
import org.iq80.leveldb.util.SliceOutput;
import org.iq80.leveldb.util.Slices;
import org.iq80.leveldb.util.Snappy;
```

```
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.lang.Thread.UncaughtExceptionHandler;
import java.nio.channels.FileChannel;
import java.util.Collections;
import java.util.List;
import java.util.Map.Entry;
```



```

import java.util.concurrent.Callable;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.Future;
import java.util.concurrent.ThreadFactory;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.locks.Condition;
import java.util.concurrent.locks.ReentrantLock;

import static com.google.common.collect.Lists.newArrayList;
import static org.iq80.leveldb.impl.DbConstants.L0_SLOWDOWN_WRITES_TRIGGER;
import static org.iq80.leveldb.impl.DbConstants.L0_STOP_WRITES_TRIGGER;
import static org.iq80.leveldb.impl.DbConstants.NUM_LEVELS;
import static org.iq80.leveldb.impl.SequenceNumber.MAX_SEQUENCE_NUMBER;
import static org.iq80.leveldb.impl.ValueType.DELETION;
import static org.iq80.leveldb.impl.ValueType.VALUE;
import static org.iq80.leveldb.util.SizeOf.SIZE_OF_INT;
import static org.iq80.leveldb.util.SizeOf.SIZE_OF_LONG;
import static org.iq80.leveldb.util.Slices.readLengthPrefixedBytes;
import static org.iq80.leveldb.util.Slices.writeLengthPrefixedBytes;

// todo make thread safe and concurrent
public class DbImpl implements DB
{
    private final Options options;
    private final File databaseDir;
    private final TableCache tableCache;
    private final DbLock dbLock;
    private final VersionSet versions;

    private final AtomicBoolean shuttingDown = new AtomicBoolean();
    private final ReentrantLock mutex = new ReentrantLock();
    private final Condition backgroundCondition = mutex.newCondition();

    private final List<Long> pendingOutputs = new ArrayList(); // todo

    private LogWriter log;

    private MemTable memTable;
    private MemTable immutableMemTable;

    private final InternalKeyComparator internalKeyComparator;

    private volatile Throwable backgroundException;
    private ExecutorService compactionExecutor;
    private Future<?> backgroundCompaction;

```

```

private ManualCompaction manualCompaction;

public DbImpl(Options options, File databaseDir)
    throws IOException
{
    Preconditions.checkNotNull(options, "options is null");
    Preconditions.checkNotNull(databaseDir, "databaseDir is null");
    this.options = options;

    if( this.options.compressionType() == CompressionType.SNAPPY && !Snappy.available() ) {
        // Disable snappy if it's not available.
        this.options.compressionType(CompressionType.NONE);
    }

    this.databaseDir = databaseDir;

    //use custom comparator if set
    DBComparator comparator = options.comparator();
    UserComparator userComparator;
    if (comparator != null) {
        userComparator = new CustomUserComparator(comparator);
    }else{
        userComparator = new BytewiseComparator();
    }
    internalKeyComparator = new InternalKeyComparator(userComparator);
    memTable = new MemTable(internalKeyComparator);
    immutableMemTable = null;

    ThreadFactory compactionThreadFactory = new ThreadFactoryBuilder()
        .setNameFormat("leveldb-compaction-%s")
        .setUncaughtExceptionHandler(new UncaughtExceptionHandler()
        {
            @Override
            public void uncaughtException(Thread t, Throwable e)
            {
                // todo need a real UncaughtExceptionHandler
                System.out.printf("%s%n", t);
                e.printStackTrace();
            }
        })
        .build();
    compactionExecutor = Executors.newSingleThreadExecutor(compactionThreadFactory);

    // Reserve ten files or so for other uses and give the rest to TableCache.
    int tableCacheSize = options.maxOpenFiles() - 10;
    tableCache = new TableCache(databaseDir, tableCacheSize, new

```

```

InternalUserComparator(internalKeyComparator), options.verifyChecksums());

    // create the version set

    // create the database dir if it does not already exist
    databaseDir.mkdirs();
    Preconditions.checkArgument(databaseDir.exists(), "Database directory '%s' does not exist and could not be
created", databaseDir);
    Preconditions.checkArgument(databaseDir.isDirectory(), "Database directory '%s' is not a directory",
databaseDir);

    mutex.lock();
    try {
        // lock the database dir
        dbLock = new DbLock(new File(databaseDir, Filename.lockFileName()));

        // verify the "current" file
        File currentFile = new File(databaseDir, Filename.currentFileName());
        if (!currentFile.canRead()) {
            Preconditions.checkArgument(options.createIfMissing(), "Database '%s' does not exist and the create if
missing option is disabled", databaseDir);
        }
        else {
            Preconditions.checkArgument(!options.errorIfExists(), "Database '%s' exists and the error if exists option
is enabled", databaseDir);
        }

        versions = new VersionSet(databaseDir, tableCache, internalKeyComparator);

        // load (and recover) current version
        versions.recover();

        // Recover from all newer log files than the ones named in the
        // descriptor (new log files may have been added by the previous
        // incarnation without registering them in the descriptor).
        //
        // Note that PrevLogNumber() is no longer used, but we pay
        // attention to it in case we are recovering a database
        // produced by an older version of leveldb.
        long minLogNumber = versions.getLogNumber();
        long previousLogNumber = versions.getPrevLogNumber();
        List<File> filenames = Filename.listFiles(databaseDir);

        List<Long> logs = Lists.newArrayList();
        for (File filename : filenames) {
            FileInfo fileInfo = Filename.parseFileName(filename);

            if (fileInfo != null &&

```

```

        fileInfo.getFileType() == FileType.LOG &&
        ((fileInfo.getFileNumber() >= minLogNumber) || (fileInfo.getFileNumber() ==
previousLogNumber))) {
            logs.add(fileInfo.getFileNumber());
        }
    }

    // Recover in the order in which the logs were generated
    VersionEdit edit = new VersionEdit();
    Collections.sort(logs);
    for (Long fileNumber : logs) {
        long maxSequence = recoverLogFile(fileNumber, edit);
        if (versions.getLastSequence() < maxSequence) {
            versions.setLastSequence(maxSequence);
        }
    }

    // open transaction log
    long logFileNumber = versions.getNextFileNumber();
    this.log = Logs.createLogWriter(new File(databaseDir, Filename.logFileName(logFileNumber)),
logFileNumber);
    edit.setLogNumber(log.getFileNumber());

    // apply recovered edits
    versions.logAndApply(edit);

    // cleanup unused files
    deleteObsoleteFiles();

    // schedule compactions
    maybeScheduleCompaction();
}
finally {
    mutex.unlock();
}
}

public void close() {
    if (shuttingDown.getAndSet(true)) {
        return;
    }

    mutex.lock();
    try {
        while (backgroundCompaction != null) {
            backgroundCondition.awaitUninterruptibly();
        }
    } finally {

```

```

        mutex.unlock();
    }

    compactionExecutor.shutdown();
    try {
        compactionExecutor.awaitTermination(1, TimeUnit.DAYS);
    }
    catch (InterruptedException e) {
        Thread.currentThread().interrupt();
    }
    try {
        versions.destroy();
    }
    catch (IOException ignored) {
    }
    try {
        log.close();
    }
    catch (IOException ignored) {
    }
    tableCache.close();
    dbLock.release();
}

```

@Override

```

public String getProperty(String name)
{
    checkBackgroundException();
    return null;
}

```

private void deleteObsoleteFiles()

```

{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    // Make a set of all of the live files
    List<Long> live = new ArrayList(this.pendingOutputs);
    for (FileMetaData fileMetaData : versions.getLiveFiles()) {
        live.add(fileMetaData.getNumber());
    }

    for (File file : Filename.listFiles(databaseDir)) {
        FileInfo fileInfo = Filename.parseFileName(file);
        if (fileInfo == null)
            continue;
        long number = fileInfo.getFileNumber();
        boolean keep = true;
        switch (fileInfo.getFileType()) {

```

```

case LOG:
    keep = ((number >= versions.getLogNumber()) ||
            (number == versions.getPrevLogNumber()));
    break;
case DESCRIPTOR:
    // Keep my manifest file, and any newer incarnations'
    // (in case there is a race that allows other incarnations)
    keep = (number >= versions.getManifestFileNumber());
    break;
case TABLE:
    keep = live.contains(number);
    break;
case TEMP:
    // Any temp files that are currently being written to must
    // be recorded in pending_outputs_, which is inserted into "live"
    keep = live.contains(number);
    break;
case CURRENT:
case DB_LOCK:
case INFO_LOG:
    keep = true;
    break;
}

if (!keep) {
    if (fileInfo.getFileType() == FileType.TABLE) {
        tableCache.evict(number);
    }
    // todo info logging system needed
    //     Log(options_info_log, "Delete type=%d #%lld\n",
    //         int(type),
    //         static_cast < unsigned long long>(number));
    file.delete();
}
}

public void flushMemTable()
{
    mutex.lock();
    try {
        // force compaction
        makeRoomForWrite(true);

        // todo bg_error code
        while (immutableMemTable != null) {
            backgroundCondition.awaitUninterruptibly();
        }
    }
}

```

```

    } finally {
        mutex.unlock();
    }
}

public void compactRange(int level, Slice start, Slice end)
{
    Preconditions.checkArgument(level >= 0, "level is negative");
    Preconditions.checkArgument(level + 1 < NUM_LEVELS, "level is greater than or equal to %s",
NUM_LEVELS);
    Preconditions.checkNotNull(start, "start is null");
    Preconditions.checkNotNull(end, "end is null");

    mutex.lock();
    try {
        while (this.manualCompaction != null) {
            backgroundCondition.awaitUninterruptibly();
        }
        ManualCompaction manualCompaction = new ManualCompaction(level, start, end);
        this.manualCompaction = manualCompaction;

        maybeScheduleCompaction();

        while (this.manualCompaction == manualCompaction) {
            backgroundCondition.awaitUninterruptibly();
        }
    }
    finally {
        mutex.unlock();
    }
}

private void maybeScheduleCompaction()
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    if (backgroundCompaction != null) {
        // Already scheduled
    }
    else if (shuttingDown.get()) {
        // DB is being shutdown; no more background compactions
    }
    else if (immutableMemTable == null &&
        manualCompaction == null &&
        !versions.needsCompaction()) {
        // No work to be done
    }
}

```

```

else {
    backgroundCompaction = compactionExecutor.submit(new Callable<Void>()
    {
        @Override
        public Void call()
            throws Exception
        {
            try {
                backgroundCall();
            }
            catch (DatabaseShutdownException ignored) {
            } catch (Throwable e) {
                backgroundException = e;
            }
            return null;
        }
    });
}
}

```

```

public void checkBackgroundException() {
    Throwable e = backgroundException;
    if(e!=null) {
        throw new BackgroundProcessingException(e);
    }
}

```

```

private void backgroundCall()
    throws IOException
{
    mutex.lock();
    try {
        if (backgroundCompaction == null) {
            return;
        }

        try {
            if (!shuttingDown.get()) {
                backgroundCompaction();
            }
        }
        finally {
            backgroundCompaction = null;
        }
    }
    finally {
        try {
            // Previous compaction may have produced too many files in a level,

```



```

        // so reschedule another compaction if needed.
        maybeScheduleCompaction();
    }
    finally {
        try {
            backgroundCondition.signalAll();
        }
        finally {
            mutex.unlock();
        }
    }
}

private void backgroundCompaction()
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    compactMemTableInternal();

    Compaction compaction;
    if (manualCompaction != null) {
        compaction = versions.compactRange(manualCompaction.level,
            new InternalKey(manualCompaction.begin, MAX_SEQUENCE_NUMBER, ValueType.VALUE),
            new InternalKey(manualCompaction.end, 0, ValueType.DELETION));
    } else {
        compaction = versions.pickCompaction();
    }

    if (compaction == null) {
        // no compaction
    } else if (manualCompaction == null && compaction.isTrivialMove()) {
        // Move file to next level
        Preconditions.checkState(compaction.getLevelInputs().size() == 1);
        FileMetaData fileMetaData = compaction.getLevelInputs().get(0);
        compaction.getEdit().deleteFile(compaction.getLevel(), fileMetaData.getNumber());
        compaction.getEdit().addFile(compaction.getLevel() + 1, fileMetaData);
        versions.logAndApply(compaction.getEdit());
        // log
    } else {
        CompactionState compactionState = new CompactionState(compaction);
        doCompactionWork(compactionState);
        cleanupCompaction(compactionState);
    }

    // manual compaction complete
    if (manualCompaction != null) {

```

```

        manualCompaction = null;
    }
}

private void cleanupCompaction(CompactionState compactionState)
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    if (compactionState.builder != null) {
        compactionState.builder.abandon();
    } else {
        Preconditions.checkArgument(compactionState.outfile == null);
    }

    for (FileMetaData output : compactionState.outputs) {
        pendingOutputs.remove(output.getNumber());
    }
}

private long recoverLogFile(long fileNumber, VersionEdit edit)
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());
    File file = new File(databaseDir, Filename.logFileName(fileNumber));
    FileChannel channel = new FileInputStream(file).getChannel();
    try {
        LogMonitor logMonitor = LogMonitors.logMonitor();
        LogReader logReader = new LogReader(channel, logMonitor, true, 0);

        // Log(options_.info_log, "Recovering log #%llu", (unsigned long long) log_number);

        // Read all the records and add to a memtable
        long maxSequence = 0;
        MemTable memTable = null;
        for (Slice record = logReader.readRecord(); record != null; record = logReader.readRecord()) {
            SliceInput sliceInput = record.input();
            // read header
            if (sliceInput.available() < 12) {
                logMonitor.corruption(sliceInput.available(), "log record too small");
                continue;
            }
            long sequenceBegin = sliceInput.readLong();
            int updateSize = sliceInput.readInt();

            // read entries
            WriteBatchImpl writeBatch = readWriteBatch(sliceInput, updateSize);

            // apply entries to memTable

```

```

    if (memTable == null) {
        memTable = new MemTable(internalKeyComparator);
    }
    writeBatch.forEach(new InsertIntoHandler(memTable, sequenceBegin));

    // update the maxSequence
    long lastSequence = sequenceBegin + updateSize - 1;
    if (lastSequence > maxSequence) {
        maxSequence = lastSequence;
    }

    // flush mem table if necessary
    if (memTable.approximateMemoryUsage() > options.writeBufferSize()) {
        writeLevel0Table(memTable, edit, null);
        memTable = null;
    }
}

// flush mem table
if (memTable != null && !memTable.isEmpty()) {
    writeLevel0Table(memTable, edit, null);
}

return maxSequence;
} finally {
    channel.close();
}
}

@Override
public byte[] get(byte[] key)
    throws DBException
{
    return get(key, new ReadOptions());
}

@Override
public byte[] get(byte[] key, ReadOptions options)
    throws DBException
{
    checkBackgroundException();
    LookupKey lookupKey;
    mutex.lock();
    try {
        SnapshotImpl snapshot = getSnapshot(options);
        lookupKey = new LookupKey(Slices.wrappedBuffer(key), snapshot.getLastSequence());

        // First look in the memtable, then in the immutable memtable (if any).

```

```

LookupResult lookupResult = memTable.get(lookupKey);
if (lookupResult != null) {
    Slice value = lookupResult.getValue();
    if (value == null) {
        return null;
    }
    return value.getBytes();
}
if (immutableMemTable != null) {
    lookupResult = immutableMemTable.get(lookupKey);
    if (lookupResult != null) {
        Slice value = lookupResult.getValue();
if (value == null) {
    return null;
}
return value.getBytes();
    }
}
finally {
    mutex.unlock();
}

// Not in memTables; try live files in level order
LookupResult lookupResult = versions.get(lookupKey);

// schedule compaction if necessary
mutex.lock();
try {
    if (versions.needsCompaction()) {
        maybeScheduleCompaction();
    }
}
finally {
    mutex.unlock();
}

if (lookupResult != null) {
    Slice value = lookupResult.getValue();
    if (value != null) {
        return value.getBytes();
    }
}
return null;
}

@Override
public void put(byte[] key, byte[] value)

```

```

        throws DBException
    {
        put(key, value, new WriteOptions());
    }

    @Override
    public Snapshot put(byte[] key, byte[] value, WriteOptions options)
        throws DBException
    {
        return writeInternal(new WriteBatchImpl().put(key, value), options);
    }

    @Override
    public void delete(byte[] key)
        throws DBException
    {
        writeInternal(new WriteBatchImpl().delete(key), new WriteOptions());
    }

    @Override
    public Snapshot delete(byte[] key, WriteOptions options)
        throws DBException
    {
        return writeInternal(new WriteBatchImpl().delete(key), options);
    }

    @Override
    public void write(WriteBatch updates)
        throws DBException
    {
        writeInternal((WriteBatchImpl) updates, new WriteOptions());
    }

    @Override
    public Snapshot write(WriteBatch updates, WriteOptions options)
        throws DBException
    {
        return writeInternal((WriteBatchImpl) updates, options);
    }

    public Snapshot writeInternal(WriteBatchImpl updates, WriteOptions options)
        throws DBException
    {
        checkBackgroundException();
        mutex.lock();
        try {
            long sequenceEnd;
            if (updates.size() != 0) {

```

```

makeRoomForWrite(false);

// Get sequence numbers for this change set
final long sequenceBegin = versions.getLastSequence() + 1;
sequenceEnd = sequenceBegin + updates.size() - 1;

// Reserve this sequence in the version set
versions.setLastSequence(sequenceEnd);

// Log write
Slice record = writeWriteBatch(updates, sequenceBegin);
try {
    log.addRecord(record, options.sync());
}
catch (IOException e) {
    throw Throwables.propagate(e);
}

// Update memtable
updates.forEach(new InsertIntoHandler(memTable, sequenceBegin));
} else {
    sequenceEnd = versions.getLastSequence();
}

if(options.snapshot()) {
    return new SnapshotImpl(versions.getCurrent(), sequenceEnd);
} else {
    return null;
}
}
finally {
    mutex.unlock();
}
}

@Override
public WriteBatch createWriteBatch()
{
    checkBackgroundException();
    return new WriteBatchImpl();
}

@Override
public SeekingIteratorAdapter iterator()
{
    return iterator(new ReadOptions());
}
}

```

```

public SeekingIteratorAdapter iterator(ReadOptions options)
{
    checkBackgroundException();
    mutex.lock();
    try {
        DbIterator rawIterator = internalIterator();

        // filter any entries not visible in our snapshot
        SnapshotImpl snapshot = getSnapshot(options);
        SnapshotSeekingIterator snapshotIterator = new SnapshotSeekingIterator(rawIterator, snapshot,
internalKeyComparator.getUserComparator());
        return new SeekingIteratorAdapter(snapshotIterator);
    }
    finally {
        mutex.unlock();
    }
}

SeekingIterable<InternalKey, Slice> internalIterable()
{
    return new SeekingIterable<InternalKey, Slice>()
    {
        @Override
        public DbIterator iterator()
        {
            return internalIterator();
        }
    };
}

DbIterator internalIterator()
{
    mutex.lock();
    try {
        // merge together the memTable, immutableMemTable, and tables in version set
        MemTableIterator iterator = null;
        if (immutableMemTable != null) {
            iterator = immutableMemTable.iterator();
        }
        Version current = versions.getCurrent();
        return new DbIterator(memTable.iterator(), iterator, current.getLevel0Files(), current.getLevelIterators(),
internalKeyComparator);
    }
    finally {
        mutex.unlock();
    }
}

```

```

public Snapshot getSnapshot()
{
    checkBackgroundException();
    mutex.lock();
    try {
        return new SnapshotImpl(versions.getCurrent(), versions.getLastSequence());
    }
    finally {
        mutex.unlock();
    }
}

private SnapshotImpl getSnapshot(ReadOptions options)
{
    SnapshotImpl snapshot;
    if (options.snapshot() != null) {
        snapshot = (SnapshotImpl) options.snapshot();
    }
    else {
        snapshot = new SnapshotImpl(versions.getCurrent(), versions.getLastSequence());
        snapshot.close(); // To avoid holding the snapshot active..
    }
    return snapshot;
}

private void makeRoomForWrite(boolean force)
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    boolean allowDelay = !force;

    while (true) {
        // todo background processing system need work
        // if (!bg_error_.ok()) {
        //     // Yield previous error
        //     s = bg_error_;
        //     break;
        // } else
        if (allowDelay && versions.numberOfFilesInLevel(0) > L0_SLOWDOWN_WRITES_TRIGGER) {
            // We are getting close to hitting a hard limit on the number of
            // L0 files. Rather than delaying a single write by several
            // seconds when we hit the hard limit, start delaying each
            // individual write by 1ms to reduce latency variance. Also,
            // this delay hands over some CPU to the compaction thread in
            // case it is sharing the same core as the writer.
            try {
                mutex.unlock();
            }
        }
    }
}

```



```

        Thread.sleep(1);
    }
    catch (InterruptedException e) {
        Thread.currentThread().interrupt();
        throw new RuntimeException(e);
    } finally {
        mutex.lock();
    }

    // Do not delay a single write more than once
    allowDelay = false;
}
else if (!force && memTable.approximateMemoryUsage() <= options.writeBufferSize()) {
    // There is room in current memtable
    break;
}
else if (immutableMemTable != null) {
    // We have filled up the current memtable, but the previous
    // one is still being compacted, so we wait.
    backgroundCondition.awaitUninterruptibly();
}
else if (versions.numberOfFilesInLevel(0) >= L0_STOP_WRITES_TRIGGER) {
    // There are too many level-0 files.
    //
    Log(options_info_log, "waiting...\n");
    backgroundCondition.awaitUninterruptibly();
}
else {
    // Attempt to switch to a new memtable and trigger compaction of old
    Preconditions.checkState(versions.getPrevLogNumber() == 0);

    // close the existing log
    try {
        log.close();
    }
    catch (IOException e) {
        throw new RuntimeException("Unable to close log file " + log.getFile(), e);
    }

    // open a new log
    long logNumber = versions.getNextFileNumber();
    try {
        this.log = Logs.createLogWriter(new File(databaseDir, Filename.logFileName(logNumber)),
logNumber);
    }
    catch (IOException e) {
        throw new RuntimeException("Unable to open new log file " +
            new File(databaseDir, Filename.logFileName(logNumber)).getAbsolutePath(), e);
    }
}

```

```

    }

    // create a new mem table
    immutableMemTable = memTable;
    memTable = new MemTable(internalKeyComparator);

    // Do not force another compaction there is space available
    force = false;

    maybeScheduleCompaction();
}
}
}

public void compactMemTable()
    throws IOException
{
    mutex.lock();
    try {
        compactMemTableInternal();
    }
    finally {
        mutex.unlock();
    }
}

private void compactMemTableInternal()
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());
    if (immutableMemTable == null) {
        return;
    }

    try {
        // Save the contents of the memtable as a new Table
        VersionEdit edit = new VersionEdit();
        Version base = versions.getCurrent();
        writeLevel0Table(immutableMemTable, edit, base);

        if (shuttingDown.get()) {
            throw new DatabaseShutdownException("Database shutdown during memtable compaction");
        }

        // Replace immutable memtable with the generated Table
        edit.setPreviousLogNumber(0);
        edit.setLogNumber(log.getFileNumber()); // Earlier logs no longer needed
        versions.logAndApply(edit);
    }
}

```

```

    immutableMemTable = null;

    deleteObsoleteFiles();
}
finally {
    backgroundCondition.signalAll();
}
}

private void writeLevel0Table(MemTable mem, VersionEdit edit, Version base)
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    // skip empty mem table
    if (mem.isEmpty()) {
        return;
    }

    // write the memtable to a new sstable
    long fileNumber = versions.getNextFileNumber();
    pendingOutputs.add(fileNumber);
    mutex.unlock();
    FileMetaData meta;
    try {
        meta = buildTable(mem, fileNumber);
    } finally {
        mutex.lock();
    }
    pendingOutputs.remove(fileNumber);

    // Note that if file size is zero, the file has been deleted and
    // should not be added to the manifest.
    int level = 0;
    if (meta != null && meta.getFileSize() > 0) {
        Slice minUserKey = meta.getSmallest().getUserKey();
        Slice maxUserKey = meta.getLargest().getUserKey();
        if (base != null) {
            level = base.pickLevelForMemTableOutput(minUserKey, maxUserKey);
        }
        edit.addFile(level, meta);
    }
}

private FileMetaData buildTable(SeekingIterable<InternalKey, Slice> data, long fileNumber)
    throws IOException
{

```

```

File file = new File(databaseDir, Filename.tableFileName(fileNumber));
try {
    InternalKey smallest = null;
    InternalKey largest = null;
    FileChannel channel = new FileOutputStream(file).getChannel();
    try {
        TableBuilder tableBuilder = new TableBuilder(options, channel, new
InternalUserComparator(internalKeyComparator));

        for (Entry<InternalKey, Slice> entry : data) {
            // update keys
            InternalKey key = entry.getKey();
            if (smallest == null) {
                smallest = key;
            }
            largest = key;

            tableBuilder.add(key.encode(), entry.getValue());
        }

        tableBuilder.finish();
    } finally {
        try {
            channel.force(true);
        } finally {
            channel.close();
        }
    }
}

if (smallest == null) {
    return null;
}
FileMetaData fileMetaData = new FileMetaData(fileNumber, file.length(), smallest, largest);

// verify table can be opened
tableCache.newIterator(fileMetaData);

pendingOutputs.remove(fileNumber);

return fileMetaData;

}
catch (IOException e) {
    file.delete();
    throw e;
}
}

```

```

private void doCompactionWork(CompactionState compactionState)
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());
    Preconditions.checkArgument(versions.numberOfBytesInLevel(compactionState.getCompaction().getLevel())
> 0);
    Preconditions.checkArgument(compactionState.builder == null);
    Preconditions.checkArgument(compactionState.outfile == null);

    // todo track snapshots
    compactionState.smallestSnapshot = versions.getLastSequence();

    // Release mutex while we're actually doing the compaction work
    mutex.unlock();
    try {
        MergingIterator iterator = versions.makeInputIterator(compactionState.compaction);

        Slice currentUserKey = null;
        boolean hasCurrentUserKey = false;

        long lastSequenceForKey = MAX_SEQUENCE_NUMBER;
        while (iterator.hasNext() && !shuttingDown.get()) {
            // always give priority to compacting the current mem table
            mutex.lock();
            try {
                compactMemTableInternal();
            }
            finally {
                mutex.unlock();
            }

            InternalKey key = iterator.peek().getKey();
            if (compactionState.compaction.shouldStopBefore(key) && compactionState.builder != null) {
                finishCompactionOutputFile(compactionState);
            }

            // Handle key/value, add to state, etc.
            boolean drop = false;
            // todo if key doesn't parse (it is corrupted),
            if (false /*!ParseInternalKey(key, &ikey)*/) {
                // do not hide error keys
                currentUserKey = null;
                hasCurrentUserKey = false;
                lastSequenceForKey = MAX_SEQUENCE_NUMBER;
            }
            else {
                if (!hasCurrentUserKey || internalKeyComparator.getUserComparator().compare(key.getUserKey(),

```

```

currentUserKey) != 0) {
    // First occurrence of this user key
    currentUserKey = key.getUserKey();
    hasCurrentUserKey = true;
    lastSequenceForKey = MAX_SEQUENCE_NUMBER;
}

if (lastSequenceForKey <= compactionState.smallestSnapshot) {
    // Hidden by an newer entry for same user key
    drop = true; // (A)
}
else if (key.getValueType() == ValueType.DELETION &&
        key.getSequenceNumber() <= compactionState.smallestSnapshot &&
        compactionState.compaction.isBaseLevelForKey(key.getUserKey())) {

    // For this user key:
    // (1) there is no data in higher levels
    // (2) data in lower levels will have larger sequence numbers
    // (3) data in layers that are being compacted here and have
    //     smaller sequence numbers will be dropped in the next
    //     few iterations of this loop (by rule (A) above).
    // Therefore this deletion marker is obsolete and can be dropped.
    drop = true;
}

lastSequenceForKey = key.getSequenceNumber();
}

if (!drop) {
    // Open output file if necessary
    if (compactionState.builder == null) {
        openCompactionOutputFile(compactionState);
    }
    if (compactionState.builder.getEntryCount() == 0) {
        compactionState.currentSmallest = key;
    }
    compactionState.currentLargest = key;
    compactionState.builder.add(key.encode(), iterator.peek().getValue());

    // Close output file if it is big enough
    if (compactionState.builder.getFileSize() >=
        compactionState.compaction.getMaxOutputFileSize()) {
        finishCompactionOutputFile(compactionState);
    }
}
iterator.next();
}

```

```

        if (shuttingDown.get()) {
            throw new DatabaseShutdownException("DB shutdown during compaction");
        }
        if (compactionState.builder != null) {
            finishCompactionOutputFile(compactionState);
        }
    }
    finally {
        mutex.lock();
    }

    // todo port CompactionStats code

    installCompactionResults(compactionState);
}

private void openCompactionOutputFile(CompactionState compactionState)
    throws FileNotFoundException
{
    Preconditions.checkNotNull(compactionState, "compactionState is null");
    Preconditions.checkArgument(compactionState.builder == null, "compactionState builder is not null");

    mutex.lock();
    try {
        long fileNumber = versions.getNextFileNumber();
        pendingOutputs.add(fileNumber);
        compactionState.currentFileNumber = fileNumber;
        compactionState.currentFileSize = 0;
        compactionState.currentSmallest = null;
        compactionState.currentLargest = null;

        File file = new File(databaseDir, Filename.tableFileName(fileNumber));
        compactionState.outfile = new FileOutputStream(file).getChannel();
        compactionState.builder = new TableBuilder(options, compactionState.outfile, new
InternalUserComparator(internalKeyComparator));
    }
    finally {
        mutex.unlock();
    }
}

private void finishCompactionOutputFile(CompactionState compactionState)
    throws IOException
{
    Preconditions.checkNotNull(compactionState, "compactionState is null");
    Preconditions.checkArgument(compactionState.outfile != null);
    Preconditions.checkArgument(compactionState.builder != null);
}

```

```

long outputNumber = compactionState.currentFileNumber;
Preconditions.checkArgument(outputNumber != 0);

long currentEntries = compactionState.builder.getEntryCount();
compactionState.builder.finish();

long currentBytes = compactionState.builder.getFileSize();
compactionState.currentFileSize = currentBytes;
compactionState.totalBytes += currentBytes;

FileMetaData currentFileMetaData = new FileMetaData(compactionState.currentFileNumber,
    compactionState.currentFileSize,
    compactionState.currentSmallest,
    compactionState.currentLargest);
compactionState.outputs.add(currentFileMetaData);

compactionState.builder = null;

compactionState.outfile.force(true);
compactionState.outfile.close();
compactionState.outfile = null;

if (currentEntries > 0) {
    // Verify that the table is usable
    tableCache.newIterator(outputNumber);
}
}

private void installCompactionResults(CompactionState compact)
    throws IOException
{
    Preconditions.checkState(mutex.isHeldByCurrentThread());

    // Add compaction outputs
    compact.compaction.addInputDeletions(compact.compaction.getEdit());
    int level = compact.compaction.getLevel();
    for (FileMetaData output : compact.outputs) {
        compact.compaction.getEdit().addFile(level + 1, output);
        pendingOutputs.remove(output.getNumber());
    }

    try {
        versions.logAndApply(compact.compaction.getEdit());
        deleteObsoleteFiles();
    }
    catch (IOException e) {
        // Compaction failed for some reason. Simply discard the work and try again later.
    }
}

```



```

    // Discard any files we may have created during this failed compaction
    for (FileMetaData output : compact.outputs) {
        File file = new File(databaseDir, Filename.tableFileName(output.getNumber()));
        file.delete();
    }
    compact.outputs.clear();
}

int numberOfFilesInLevel(int level)
{
    return versions.getCurrent().numberOfFilesInLevel(level);
}

@Override
public long[] getApproximateSizes(Range... ranges)
{
    Preconditions.checkNotNull(ranges, "ranges is null");
    long[] sizes = new long[ranges.length];
    for (int i = 0; i < ranges.length; i++) {
        Range range = ranges[i];
        sizes[i] = getApproximateSizes(range);
    }
    return sizes;
}

public long getApproximateSizes(Range range)
{
    Version v = versions.getCurrent();

    InternalKey startKey = new InternalKey(Slices.wrappedBuffer(range.start()),
SequenceNumber.MAX_SEQUENCE_NUMBER, ValueType.VALUE);
    InternalKey limitKey = new InternalKey(Slices.wrappedBuffer(range.limit()),
SequenceNumber.MAX_SEQUENCE_NUMBER, ValueType.VALUE);
    long startOffset = v.getApproximateOffsetOf(startKey);
    long limitOffset = v.getApproximateOffsetOf(limitKey);

    return (limitOffset >= startOffset ? limitOffset - startOffset : 0);
}

public long getMaxNextLevelOverlappingBytes()
{
    return versions.getMaxNextLevelOverlappingBytes();
}

private static class CompactionState
{
    private final Compaction compaction;
}

```

```

private final List<FileMetaData> outputs = newArrayList();

private long smallestSnapshot;

// State kept for output being generated
private FileChannel outfile;
private TableBuilder builder;

// Current file being generated
private long currentFileNumber;
private long currentFileSize;
private InternalKey currentSmallest;
private InternalKey currentLargest;

private long totalBytes;

private CompactionState(Compaction compaction)
{
    this.compaction = compaction;
}

public Compaction getCompaction()
{
    return compaction;
}
}

private static class ManualCompaction
{
    private final int level;
    private final Slice begin;
    private final Slice end;

    private ManualCompaction(int level, Slice begin, Slice end)
    {
        this.level = level;
        this.begin = begin;
        this.end = end;
    }
}

private WriteBatchImpl readWriteBatch(SliceInput record, int updateSize)
    throws IOException
{
    WriteBatchImpl writeBatch = new WriteBatchImpl();
    int entries = 0;
    while (record.isReadable()) {

```

```

entries++;
ValueType valueType = ValueType.getValueTypeByPersistentId(record.readByte());
if (valueType == VALUE) {
    Slice key = readLengthPrefixedBytes(record);
    Slice value = readLengthPrefixedBytes(record);
    writeBatch.put(key, value);
} else if (valueType == DELETION) {
    Slice key = readLengthPrefixedBytes(record);
    writeBatch.delete(key);
} else {
    throw new IllegalStateException("Unexpected value type " + valueType);
}
}

if (entries != updateSize) {
    throw new IOException(String.format("Expected %d entries in log record but found %s entries", updateSize,
entries));
}

return writeBatch;
}

private Slice writeWriteBatch(WriteBatchImpl updates, long sequenceBegin)
{
    Slice record = Slices.allocate(SIZE_OF_LONG + SIZE_OF_INT + updates.getApproximateSize());
    final SliceOutput sliceOutput = record.output();
    sliceOutput.writeLong(sequenceBegin);
    sliceOutput.writeInt(updates.size());
    updates.forEach(new Handler()
    {
        @Override
        public void put(Slice key, Slice value)
        {
            sliceOutput.writeByte(VALUE.getPersistentId());
            writeLengthPrefixedBytes(sliceOutput, key);
            writeLengthPrefixedBytes(sliceOutput, value);
        }

        @Override
        public void delete(Slice key)
        {
            sliceOutput.writeByte(DELETION.getPersistentId());
            writeLengthPrefixedBytes(sliceOutput, key);
        }
    });
    return record.slice(0, sliceOutput.size());
}

```

```

private static class InsertIntoHandler implements Handler
{
    private long sequence;
    private final MemTable memTable;

    public InsertIntoHandler(MemTable memTable, long sequenceBegin)
    {
        this.memTable = memTable;
        this.sequence = sequenceBegin;
    }

    @Override
    public void put(Slice key, Slice value)
    {
        memTable.add(sequence++, VALUE, key, value);
    }

    @Override
    public void delete(Slice key)
    {
        memTable.add(sequence++, DELETION, key, Slices.EMPTY_SLICE);
    }
}

public static class DatabaseShutdownException extends DBException {
    public DatabaseShutdownException()
    {
    }

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

public static class BackgroundProcessingException extends DBException {
    public BackgroundProcessingException(Throwable cause)
    {
        super(cause);
    }
}

private Object suspensionMutex = new Object();
private int suspensionCounter=0;

@Override
public void suspendCompactions() throws InterruptedException {
    compactionExecutor.execute(new Runnable() {

```

```

@Override
public void run() {
    try {
        synchronized (suspensionMutex) {
            suspensionCounter ++;
            suspensionMutex.notifyAll();
            while( suspensionCounter > 0 && !compactionExecutor.isShutdown()) {
                suspensionMutex.wait(500);
            }
        }
    } catch (InterruptedException e) {
    }
}
});
synchronized (suspensionMutex) {
    while(suspensionCounter < 1) {
        suspensionMutex.wait();
    }
}
}

```

```

@Override
public void resumeCompactions() {
    synchronized (suspensionMutex) {
        suspensionCounter --;
        suspensionMutex.notifyAll();
    }
}

```

```

@Override
public void compactRange(byte[] begin, byte[] end) throws DBException {
    throw new UnsupportedOperationException("Not yet implemented");
}
}

```

/\*\*

```

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```

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\*/

```
package org.iq80.leveldb.impl;
```

```
import org.iq80.leveldb.Snapshot;
```

```
import java.util.concurrent.atomic.AtomicBoolean;
```

```
public class SnapshotImpl implements Snapshot
```

```
{
```

```
    private final AtomicBoolean closed = new AtomicBoolean();
```

```
    private final Version version;
```

```
    private final long lastSequence;
```

```
    SnapshotImpl(Version version, long lastSequence)
```

```
{
```

```
        this.version = version;
```

```
        this.lastSequence = lastSequence;
```

```
        this.version.retain();
```

```
}
```

```
@Override
```

```
public void close()
```

```
{
```

```
    // This is an end user API.. he might screw up and close multiple times.
```

```
    // but we don't want the version reference count going bad.
```

```
    if(closed.compareAndSet(false, true)) {
```

```
        this.version.release();
```

```
    }
```

```
}
```

```
public long getLastSequence() {
```

```
    return lastSequence;
```

```
}
```

```
public Version getVersion() {
```

```
    return version;
```

```
}
```

```
@Override
```

```
public String toString() {
```

```
    return Long.toString(lastSequence);
```

```
}
```

```
@Override
```

```
public boolean equals(Object o) {
```

```
    if (this == o) return true;
```

```

    if (o == null || getClass() != o.getClass()) return false;

    SnapshotImpl snapshot = (SnapshotImpl) o;

    if (lastSequence != snapshot.lastSequence) return false;
    if (!version.equals(snapshot.version)) return false;

    return true;
}

@Override
public int hashCode() {
    int result = version.hashCode();
    result = 31 * result + (int) (lastSequence ^ (lastSequence >>> 32));
    return result;
}
}
/**
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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.iq80.leveldb.impl;

import com.google.common.base.Preconditions;
import com.google.common.collect.Maps;
import org.iq80.leveldb.WriteBatch;
import org.iq80.leveldb.util.Slice;
import org.iq80.leveldb.util.Slices;

import java.util.List;
import java.util.Map.Entry;

import static com.google.common.collect.Lists.newArrayList;

public class WriteBatchImpl implements WriteBatch

```

```

{
    private List<Entry<Slice, Slice>> batch = new ArrayList();
    private int approximateSize;

    public int getApproximateSize()
    {
        return approximateSize;
    }

    public int size()
    {
        return batch.size();
    }

    @Override
    public WriteBatchImpl put(byte[] key, byte[] value)
    {
        Preconditions.checkNotNull(key, "key is null");
        Preconditions.checkNotNull(value, "value is null");
        batch.add(Maps.immutableEntry(Slices.wrappedBuffer(key), Slices.wrappedBuffer(value)));
        approximateSize += 12 + key.length + value.length;
        return this;
    }

    public WriteBatchImpl put(Slice key, Slice value)
    {
        Preconditions.checkNotNull(key, "key is null");
        Preconditions.checkNotNull(value, "value is null");
        batch.add(Maps.immutableEntry(key, value));
        approximateSize += 12 + key.length() + value.length();
        return this;
    }

    @Override
    public WriteBatchImpl delete(byte[] key)
    {
        Preconditions.checkNotNull(key, "key is null");
        batch.add(Maps.immutableEntry(Slices.wrappedBuffer(key), (Slice) null));
        approximateSize += 6 + key.length;
        return this;
    }

    public WriteBatchImpl delete(Slice key)
    {
        Preconditions.checkNotNull(key, "key is null");
        batch.add(Maps.immutableEntry(key, (Slice) null));
        approximateSize += 6 + key.length();
        return this;
    }

```



```

    }

    @Override
    public void close()
    {
    }

    public void forEach(Handler handler)
    {
        for (Entry<Slice, Slice> entry : batch) {
            Slice key = entry.getKey();
            Slice value = entry.getValue();
            if (value != null) {
                handler.put(key, value);
            }
            else {
                handler.delete(key);
            }
        }
    }

    public static interface Handler
    {
        void put(Slice key, Slice value);

        void delete(Slice key);
    }

}
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 * under the License.
 */
package org.iq80.leveldb.util;

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

```

```
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.channels.ScatteringByteChannel;
import java.nio.charset.Charset;
```

```
public class BasicSliceOutput extends SliceOutput
```

```
{
    private final Slice slice;
    private int size;
```

```
    protected BasicSliceOutput(Slice slice)
```

```
    {
        this.slice = slice;
    }
```

```
    @Override
```

```
    public void reset()
```

```
    {
        size = 0;
    }
```

```
    @Override
```

```
    public int size()
```

```
    {
        return size;
    }
```

```
    @Override
```

```
    public boolean isWritable()
```

```
    {
        return writableBytes() > 0;
    }
```

```
    @Override
```

```
    public int writableBytes()
```

```
    {
        return slice.length() - size;
    }
```

```
    @Override
```

```
    public void writeByte(int value)
```

```
    {
        slice.setByte(size++, value);
    }
```

```
    @Override
```

```
    public void writeShort(int value)
```

```
    {
```

```
    slice.setShort(size, value);
    size += 2;
}
```

```
@Override
public void writeInt(int value)
{
    slice.setInt(size, value);
    size += 4;
}
```

```
@Override
public void writeLong(long value)
{
    slice.setLong(size, value);
    size += 8;
}
```

```
@Override
public void writeBytes(byte[] source, int sourceIndex, int length)
{
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}
```

```
@Override
public void writeBytes(byte[] source)
{
    writeBytes(source, 0, source.length);
}
```

```
@Override
public void writeBytes(Slice source)
{
    writeBytes(source, 0, source.length());
}
```

```
@Override
public void writeBytes(SliceInput source, int length)
{
    if (length > source.available()) {
        throw new IndexOutOfBoundsException();
    }
    writeBytes(source.readBytes(length));
}
```

```
@Override
public void writeBytes(Slice source, int sourceIndex, int length)
```

```
{
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}
```

```
@Override
public void writeBytes(ByteBuffer source)
{
    int length = source.remaining();
    slice.setBytes(size, source);
    size += length;
}
```

```
@Override
public int writeBytes(InputStream in, int length)
    throws IOException
{
    int writtenBytes = slice.setBytes(size, in, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}
```

```
@Override
public int writeBytes(ScatteringByteChannel in, int length)
    throws IOException
{
    int writtenBytes = slice.setBytes(size, in, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}
```

```
@Override
public int writeBytes(FileChannel in, int position, int length)
    throws IOException
{
    int writtenBytes = slice.setBytes(size, in, position, length);
    if (writtenBytes > 0) {
        size += writtenBytes;
    }
    return writtenBytes;
}
```

```
@Override
public void writeZero(int length)
```

```

{
    if (length == 0) {
        return;
    }
    if (length < 0) {
        throw new IllegalArgumentException(
            "length must be 0 or greater than 0.");
    }
    int nLong = length >>> 3;
    int nBytes = length & 7;
    for (int i = nLong; i > 0; i--) {
        writeLong(0);
    }
    if (nBytes == 4) {
        writeInt(0);
    }
    else if (nBytes < 4) {
        for (int i = nBytes; i > 0; i--) {
            writeByte((byte) 0);
        }
    }
    else {
        writeInt(0);
        for (int i = nBytes - 4; i > 0; i--) {
            writeByte((byte) 0);
        }
    }
}

```

```

@Override
public Slice slice()
{
    return slice.slice(0, size);
}

```

```

@Override
public ByteBuffer toByteBuffer()
{
    return slice.toByteBuffer(0, size);
}

```

```

@Override
public String toString()
{
    return getClass().getSimpleName() + '(' +
        "size=" + size + ", " +
        "capacity=" + slice.length() +
        ')';
}

```

```

    }

    public String toString(Charset charset)
    {
        return slice.toString(0, size, charset);
    }
}
/*
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
package org.iq80.leveldb.util;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.channels.ScatteringByteChannel;
import java.nio.charset.Charset;

public class DynamicSliceOutput extends SliceOutput
{
    private Slice slice;
    private int size;

    public DynamicSliceOutput(int estimatedSize)
    {
        this.slice = new Slice(estimatedSize);
    }

    @Override
    public void reset()
    {
        size = 0;
    }

    @Override

```

```

public int size()
{
    return size;
}

@Override
public boolean isWritable()
{
    return writableBytes() > 0;
}

@Override
public int writableBytes()
{
    return slice.length() - size;
}

@Override
public void writeByte(int value)
{
    slice = Slices.ensureSize(slice, size + 1);
    slice.setByte(size++, value);
}

@Override
public void writeShort(int value)
{
    slice = Slices.ensureSize(slice, size + 2);
    slice.setShort(size, value);
    size += 2;
}

@Override
public void writeInt(int value)
{
    slice = Slices.ensureSize(slice, size + 4);
    slice.setInt(size, value);
    size += 4;
}

@Override
public void writeLong(long value)
{
    slice = Slices.ensureSize(slice, size + 8);
    slice.setLong(size, value);
    size += 8;
}

```

```
@Override
public void writeBytes(byte[] source)
{
    writeBytes(source, 0, source.length);
}
```

```
@Override
public void writeBytes(byte[] source, int sourceIndex, int length)
{
    slice = Slices.ensureSize(slice, size + length);
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}
```

```
@Override
public void writeBytes(Slice source)
{
    writeBytes(source, 0, source.length());
}
```

```
@Override
public void writeBytes(SliceInput source, int length)
{
    if (length > source.available()) {
        throw new IndexOutOfBoundsException();
    }
    writeBytes(source.slice());
}
```

```
@Override
public void writeBytes(Slice source, int sourceIndex, int length)
{
    slice = Slices.ensureSize(slice, size + length);
    slice.setBytes(size, source, sourceIndex, length);
    size += length;
}
```

```
@Override
public void writeBytes(ByteBuffer source)
{
    int length = source.remaining();
    slice = Slices.ensureSize(slice, size + length);
    slice.setBytes(size, source);
    size += length;
}
```

```
@Override
public int writeBytes(InputStream in, int length)
```



```

        throws IOException
    {
        slice = Slices.ensureSize(slice, size + length);
        int writtenBytes = slice.setBytes(size, in, length);
        if (writtenBytes > 0) {
            size += writtenBytes;
        }
        return writtenBytes;
    }

    @Override
    public int writeBytes(ScatteringByteChannel in, int length)
        throws IOException
    {
        slice = Slices.ensureSize(slice, size + length);
        int writtenBytes = slice.setBytes(size, in, length);
        if (writtenBytes > 0) {
            size += writtenBytes;
        }
        return writtenBytes;
    }

    @Override
    public int writeBytes(FileChannel in, int position, int length)
        throws IOException
    {
        slice = Slices.ensureSize(slice, size + length);
        int writtenBytes = slice.setBytes(size, in, position, length);
        if (writtenBytes > 0) {
            size += writtenBytes;
        }
        return writtenBytes;
    }

    @Override
    public void writeZero(int length)
    {
        if (length == 0) {
            return;
        }
        if (length < 0) {
            throw new IllegalArgumentException(
                "length must be 0 or greater than 0.");
        }
        slice = Slices.ensureSize(slice, size + length);
        int nLong = length >>> 3;
        int nBytes = length & 7;
        for (int i = nLong; i > 0; i--) {

```

```

        writeLong(0);
    }
    if (nBytes == 4) {
        writeInt(0);
    }
    else if (nBytes < 4) {
        for (int i = nBytes; i > 0; i--) {
            writeByte((byte) 0);
        }
    }
    else {
        writeInt(0);
        for (int i = nBytes - 4; i > 0; i--) {
            writeByte((byte) 0);
        }
    }
}

@Override
public Slice slice()
{
    return slice.slice(0, size);
}

@Override
public ByteBuffer toByteBuffer()
{
    return slice.toByteBuffer(0, size);
}

@Override
public String toString()
{
    return getClass().getSimpleName() + '(' +
        "size=" + size + ", " +
        "capacity=" + slice.length() +
        ')';
}

@Override
public String toString(Charset charset)
{
    return slice.toString(0, size, charset);
}
}
/*
 * Copyright 2009 Red Hat, Inc.
 *

```

```
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*/
```

```
package org.iq80.leveldb.util;
```

```
import com.google.common.base.Preconditions;
```

```
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.channels.ClosedChannelException;
import java.nio.channels.FileChannel;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;
import java.nio.charset.Charset;
import java.util.Arrays;
```

```
import static java.nio.ByteOrder.LITTLE_ENDIAN;
import static org.iq80.leveldb.util.SizeOf.*;
```

```
/**
```

```
 * Little Endian slice of a byte array.
```

```
*/
```

```
public final class Slice implements Comparable<Slice>
```

```
{
```

```
    private final byte[] data;
```

```
    private final int offset;
```

```
    private final int length;
```

```
    private int hash;
```

```
    public Slice(int length)
```

```
    {
```

```
        data = new byte[length];
```

```
        this.offset = 0;
```

```
        this.length = length;
```

```
    }
```

```

public Slice(byte[] data)
{
    Preconditions.checkNotNull(data, "array is null");
    this.data = data;
    this.offset = 0;
    this.length = data.length;
}

public Slice(byte[] data, int offset, int length)
{
    Preconditions.checkNotNull(data, "array is null");
    this.data = data;
    this.offset = offset;
    this.length = length;
}

/**
 * Length of this slice.
 */
public int length()
{
    return length;
}

/**
 * Gets the array underlying this slice.
 */
public byte[] getRawArray()
{
    return data;
}

/**
 * Gets the offset of this slice in the underlying array.
 */
public int getRawOffset()
{
    return offset;
}

/**
 * Gets a byte at the specified absolute { @code index } in this buffer.
 *
 * @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
 * { @code index + 1 } is greater than { @code this.capacity }
 */
public byte getByte(int index)
{

```

```

    Preconditions.checkPositionIndexes(index, index + SIZE_OF_BYTE, this.length);
    index += offset;
    return data[index];
}

/**
 * Gets an unsigned byte at the specified absolute {@code index} in this
 * buffer.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0} or
 * {@code index + 1} is greater than {@code this.capacity}
 */
public short getUnsignedByte(int index)
{
    return (short) (getByte(index) & 0xFF);
}

/**
 * Gets a 16-bit short integer at the specified absolute {@code index} in
 * this slice.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0} or
 * {@code index + 2} is greater than {@code this.capacity}
 */
public short getShort(int index)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_SHORT, this.length);
    index += offset;
    return (short) (data[index] & 0xFF | data[index + 1] << 8);
}

/**
 * Gets a 32-bit integer at the specified absolute {@code index} in
 * this buffer.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0} or
 * {@code index + 4} is greater than {@code this.capacity}
 */
public int getInt(int index)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_INT, this.length);
    index += offset;
    return (data[index] & 0xff |
            (data[index + 1] & 0xff) << 8 |
            (data[index + 2] & 0xff) << 16 |
            (data[index + 3] & 0xff) << 24);
}

```

```

/**
 * Gets a 64-bit long integer at the specified absolute { @code index } in
 * this buffer.
 *
 * @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
 * { @code index + 8 } is greater than { @code this.capacity }
 */
public long getLong(int index)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_LONG, this.length);
    index += offset;
    return ((long) data[index] & 0xff |
        ((long) data[index + 1] & 0xff) << 8 |
        ((long) data[index + 2] & 0xff) << 16 |
        ((long) data[index + 3] & 0xff) << 24 |
        ((long) data[index + 4] & 0xff) << 32 |
        ((long) data[index + 5] & 0xff) << 40 |
        ((long) data[index + 6] & 0xff) << 48 |
        ((long) data[index + 7] & 0xff) << 56;
}

/**
 * Transfers this buffer's data to the specified destination starting at
 * the specified absolute { @code index }.
 *
 * @param dstIndex the first index of the destination
 * @param length the number of bytes to transfer
 * @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 },
 * if the specified { @code dstIndex } is less than { @code 0 },
 * if { @code index + length } is greater than
 * { @code this.capacity }, or
 * if { @code dstIndex + length } is greater than
 * { @code dst.capacity }
 */
public void getBytes(int index, Slice dst, int dstIndex, int length)
{
    getBytes(index, dst.data, dstIndex, length);
}

/**
 * Transfers this buffer's data to the specified destination starting at
 * the specified absolute { @code index }.
 *
 * @param destinationIndex the first index of the destination
 * @param length the number of bytes to transfer
 * @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 },
 * if the specified { @code dstIndex } is less than { @code 0 },
 * if { @code index + length } is greater than

```

```

* { @code this.capacity }, or
* if { @code dstIndex + length } is greater than
* { @code dst.length }
*/
public void getBytes(int index, byte[] destination, int destinationIndex, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    Preconditions.checkPositionIndexes(destinationIndex, destinationIndex + length, destination.length);
    index += offset;
    System.arraycopy(data, index, destination, destinationIndex, length);
}

public byte[] getBytes()
{
    return getBytes(0, length);
}

public byte[] getBytes(int index, int length)
{
    index += offset;
    if (index == 0) {
        return Arrays.copyOf(data, length);
    } else {
        byte[] value = new byte[length];
        System.arraycopy(data, index, value, 0, length);
        return value;
    }
}

/**
 * Transfers this buffer's data to the specified destination starting at
 * the specified absolute { @code index } until the destination's position
 * reaches its limit.
 *
 * @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
 * if { @code index + dst.remaining() } is greater than
 * { @code this.capacity }
 */
public void getBytes(int index, ByteBuffer destination)
{
    Preconditions.checkPositionIndex(index, this.length);
    index += offset;
    destination.put(data, index, Math.min(length, destination.remaining()));
}

/**
 * Transfers this buffer's data to the specified stream starting at the
 * specified absolute { @code index }.

```

```

*
* @param length the number of bytes to transfer
* @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
* if { @code index + length } is greater than
* { @code this.capacity }
* @throws java.io.IOException if the specified stream threw an exception during I/O
*/
public void getBytes(int index, OutputStream out, int length)
    throws IOException
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    out.write(data, index, length);
}

/**
* Transfers this buffer's data to the specified channel starting at the
* specified absolute { @code index }.
*
* @param length the maximum number of bytes to transfer
* @return the actual number of bytes written out to the specified channel
* @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
* if { @code index + length } is greater than
* { @code this.capacity }
* @throws java.io.IOException if the specified channel threw an exception during I/O
*/
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    return out.write(ByteBuffer.wrap(data, index, length));
}

/**
* Sets the specified 16-bit short integer at the specified absolute
* { @code index } in this buffer. The 16 high-order bits of the specified
* value are ignored.
*
* @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
* { @code index + 2 } is greater than { @code this.capacity }
*/
public void setShort(int index, int value)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_SHORT, this.length);
    index += offset;
    data[index] = (byte) (value);
    data[index + 1] = (byte) (value >>> 8);
}

```



```

}

/**
 * Sets the specified 32-bit integer at the specified absolute
 * {@code index} in this buffer.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0} or
 * {@code index + 4} is greater than {@code this.capacity}
 */
public void setInt(int index, int value)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_INT, this.length);
    index += offset;
    data[index] = (byte) (value);
    data[index + 1] = (byte) (value >>> 8);
    data[index + 2] = (byte) (value >>> 16);
    data[index + 3] = (byte) (value >>> 24);
}

/**
 * Sets the specified 64-bit long integer at the specified absolute
 * {@code index} in this buffer.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0} or
 * {@code index + 8} is greater than {@code this.capacity}
 */
public void setLong(int index, long value)
{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_LONG, this.length);
    index += offset;
    data[index] = (byte) (value);
    data[index + 1] = (byte) (value >>> 8);
    data[index + 2] = (byte) (value >>> 16);
    data[index + 3] = (byte) (value >>> 24);
    data[index + 4] = (byte) (value >>> 32);
    data[index + 5] = (byte) (value >>> 40);
    data[index + 6] = (byte) (value >>> 48);
    data[index + 7] = (byte) (value >>> 56);
}

/**
 * Sets the specified byte at the specified absolute {@code index} in this
 * buffer. The 24 high-order bits of the specified value are ignored.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0} or
 * {@code index + 1} is greater than {@code this.capacity}
 */
public void setByte(int index, int value)

```

```

{
    Preconditions.checkPositionIndexes(index, index + SIZE_OF_BYTE, this.length);
    index += offset;
    data[index] = (byte) value;
}

/**
 * Transfers the specified source buffer's data to this buffer starting at
 * the specified absolute {@code index}.
 *
 * @param srcIndex the first index of the source
 * @param length the number of bytes to transfer
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0},
 * if the specified {@code srcIndex} is less than {@code 0},
 * if {@code index + length} is greater than
 * {@code this.capacity}, or
 * if {@code srcIndex + length} is greater than
 * {@code src.capacity}
 */
public void setBytes(int index, Slice src, int srcIndex, int length)
{
    setBytes(index, src.data, src.offset + srcIndex, length);
}

/**
 * Transfers the specified source array's data to this buffer starting at
 * the specified absolute {@code index}.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0},
 * if the specified {@code srcIndex} is less than {@code 0},
 * if {@code index + length} is greater than
 * {@code this.capacity}, or
 * if {@code srcIndex + length} is greater than {@code src.length}
 */
public void setBytes(int index, byte[] source, int sourceIndex, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    Preconditions.checkPositionIndexes(sourceIndex, sourceIndex + length, source.length);
    index += offset;
    System.arraycopy(source, sourceIndex, data, index, length);
}

/**
 * Transfers the specified source buffer's data to this buffer starting at
 * the specified absolute {@code index} until the source buffer's position
 * reaches its limit.
 *
 * @throws IndexOutOfBoundsException if the specified {@code index} is less than {@code 0} or

```

```

* if { @code index + src.remaining() } is greater than
* { @code this.capacity }
*/
public void setBytes(int index, ByteBuffer source)
{
    Preconditions.checkPositionIndexes(index, index + source.remaining(), this.length);
    index += offset;
    source.get(data, index, source.remaining());
}

/**
 * Transfers the content of the specified source stream to this buffer
 * starting at the specified absolute { @code index }.
 *
 * @param length the number of bytes to transfer
 * @return the actual number of bytes read in from the specified channel.
 *         { @code -1 } if the specified channel is closed.
 * @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
 *         if { @code index + length } is greater than { @code this.capacity }
 * @throws java.io.IOException if the specified stream threw an exception during I/O
 */
public int setBytes(int index, InputStream in, int length)
    throws IOException
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    int readBytes = 0;
    do {
        int localReadBytes = in.read(data, index, length);
        if (localReadBytes < 0) {
            if (readBytes == 0) {
                return -1;
            }
        }
        else {
            break;
        }
    }
    readBytes += localReadBytes;
    index += localReadBytes;
    length -= localReadBytes;
    } while (length > 0);

    return readBytes;
}

/**
 * Transfers the content of the specified source channel to this buffer
 * starting at the specified absolute { @code index }.

```

```

*
* @param length the maximum number of bytes to transfer
* @return the actual number of bytes read in from the specified channel.
*     { @code -1 } if the specified channel is closed.
* @throws IndexOutOfBoundsException if the specified { @code index } is less than { @code 0 } or
* if { @code index + length } is greater than { @code this.capacity }
* @throws java.io.IOException if the specified channel threw an exception during I/O
*/
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    ByteBuffer buf = ByteBuffer.wrap(data, index, length);
    int readBytes = 0;

    do {
        int localReadBytes;
        try {
            localReadBytes = in.read(buf);
        }
        catch (ClosedChannelException e) {
            localReadBytes = -1;
        }
        if (localReadBytes < 0) {
            if (readBytes == 0) {
                return -1;
            }
            else {
                break;
            }
        }
        else if (localReadBytes == 0) {
            break;
        }
        readBytes += localReadBytes;
    } while (readBytes < length);

    return readBytes;
}

public int setBytes(int index, FileChannel in, int position, int length)
    throws IOException
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    ByteBuffer buf = ByteBuffer.wrap(data, index, length);
    int readBytes = 0;

```

```

do {
    int localReadBytes;
    try {
        localReadBytes = in.read(buf, position + readBytes);
    }
    catch (ClosedChannelException e) {
        localReadBytes = -1;
    }
    if (localReadBytes < 0) {
        if (readBytes == 0) {
            return -1;
        }
        else {
            break;
        }
    }
    else if (localReadBytes == 0) {
        break;
    }
    readBytes += localReadBytes;
} while (readBytes < length);

return readBytes;
}

public Slice copySlice()
{
    return copySlice(0, length);
}

/**
 * Returns a copy of this buffer's sub-region. Modifying the content of
 * the returned buffer or this buffer does not affect each other at all.
 */
public Slice copySlice(int index, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);

    index += offset;
    byte[] copiedArray = new byte[length];
    System.arraycopy(data, index, copiedArray, 0, length);
    return new Slice(copiedArray);
}

public byte[] copyBytes()
{
    return copyBytes(0, length);
}

```

```

}

public byte[] copyBytes(int index, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    if (index == 0) {
        return Arrays.copyOf(data, length);
    } else {
        byte[] value = new byte[length];
        System.arraycopy(data, index, value, 0, length);
        return value;
    }
}

/**
 * Returns a slice of this buffer's readable bytes. Modifying the content
 * of the returned buffer or this buffer affects each other's content
 * while they maintain separate indexes and marks.
 */
public Slice slice()
{
    return slice(0, length);
}

/**
 * Returns a slice of this buffer's sub-region. Modifying the content of
 * the returned buffer or this buffer affects each other's content while
 * they maintain separate indexes and marks.
 */
public Slice slice(int index, int length)
{
    if (index == 0 && length == this.length) {
        return this;
    }

    Preconditions.checkPositionIndexes(index, index + length, this.length);
    if (index >= 0 && length == 0) {
        return Slices.EMPTY_SLICE;
    }
    return new Slice(data, offset + index, length);
}

/**
 * Creates an input stream over this slice.
 */
public SliceInput input()
{

```

```

    return new SliceInput(this);
}

/**
 * Creates an output stream over this slice.
 */
public SliceOutput output()
{
    return new BasicSliceOutput(this);
}

/**
 * Converts this buffer's readable bytes into a NIO buffer. The returned
 * buffer shares the content with this buffer.
 */
public ByteBuffer toByteBuffer()
{
    return toByteBuffer(0, length);
}

/**
 * Converts this buffer's sub-region into a NIO buffer. The returned
 * buffer shares the content with this buffer.
 */
public ByteBuffer toByteBuffer(int index, int length)
{
    Preconditions.checkPositionIndexes(index, index + length, this.length);
    index += offset;
    return ByteBuffer.wrap(data, index, length).order(LITTLE_ENDIAN);
}

@Override
public boolean equals(Object o)
{
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }

    Slice slice = (Slice) o;

    // do lengths match
    if (length != slice.length) {
        return false;
    }
}

```

```

// if arrays have same base offset, some optimizations can be taken...
if (offset == slice.offset && data == slice.data) {
    return true;
}
for (int i = 0; i < length; i++) {
    if (data[offset + i] != slice.data[slice.offset + i]) {
        return false;
    }
}
return true;
}

@Override
public int hashCode()
{
    if (hash != 0) {
        return hash;
    }

    int result = length;
    for (int i = offset; i < offset + length; i++) {
        result = 31 * result + data[i];
    }
    if (result == 0) {
        result = 1;
    }
    hash = result;
    return hash;
}

/**
 * Compares the content of the specified buffer to the content of this
 * buffer. This comparison is performed byte by byte using an unsigned
 * comparison.
 */
public int compareTo(Slice that)
{
    if (this == that) {
        return 0;
    }
    if (this.data == that.data && length == that.length && offset == that.offset) {
        return 0;
    }

    int minLength = Math.min(this.length, that.length);
    for (int i = 0; i < minLength; i++) {
        int thisByte = 0xFF & this.data[this.offset + i];
        int thatByte = 0xFF & that.data[that.offset + i];

```



```

        if (thisByte != thatByte) {
            return (thisByte) - (thatByte);
        }
    }
    return this.length - that.length;
}

/**
 * Decodes this buffer's readable bytes into a string with the specified
 * character set name.
 */
public String toString(Charset charset)
{
    return toString(0, length, charset);
}

/**
 * Decodes this buffer's sub-region into a string with the specified
 * character set.
 */
public String toString(int index, int length, Charset charset)
{
    if (length == 0) {
        return "";
    }

    return Slices.decodeString(toByteBuffer(index, length), charset);
}

public String toString()
{
    return getClass().getSimpleName() + '(' +
        "length=" + length() +
        ')';
}
}
/**
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\*/

```
package org.iq80.leveldb.util;
```

```
import com.google.common.base.Preconditions;
```

```
import javax.xml.transform.Source;
```

```
import java.nio.ByteBuffer;
```

```
import java.nio.ByteOrder;
```

```
import java.nio.CharBuffer;
```

```
import java.nio.charset.CharacterCodingException;
```

```
import java.nio.charset.Charset;
```

```
import java.nio.charset.CharsetDecoder;
```

```
import java.nio.charset.CharsetEncoder;
```

```
import java.nio.charset.CoderResult;
```

```
import java.nio.charset.CodingErrorAction;
```

```
import java.util.IdentityHashMap;
```

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

```
public final class Slices
```

```
{
```

```
    public static Slice readLengthPrefixedBytes(SliceInput sliceInput)
```

```
    {
```

```
        int length = VariableLengthQuantity.readVariableLengthInt(sliceInput);
```

```
        return sliceInput.readBytes(length);
```

```
    }
```

```
    public static void writeLengthPrefixedBytes(SliceOutput sliceOutput, Slice value)
```

```
    {
```

```
        VariableLengthQuantity.writeVariableLengthInt(value.length(), sliceOutput);
```

```
        sliceOutput.writeBytes(value);
```

```
    }
```

```
/**
```

```
 * A buffer whose capacity is { @code 0}.
```

```
*/
```

```
public static final Slice EMPTY_SLICE = new Slice(0);
```

```
private Slices()
```

```
{
```

```
}
```

```
public static Slice ensureSize(Slice existingSlice, int minWritableBytes)
```

```
{
```

```
    if (existingSlice == null) {
```

```

        existingSlice = EMPTY_SLICE;
    }

    if (minWritableBytes <= existingSlice.length()) {
        return existingSlice;
    }

    int newCapacity;
    if (existingSlice.length() == 0) {
        newCapacity = 1;
    }
    else {
        newCapacity = existingSlice.length();
    }
    int minNewCapacity = existingSlice.length() + minWritableBytes;
    while (newCapacity < minNewCapacity) {
        newCapacity <<= 1;
    }

    Slice newSlice = Slices.allocate(newCapacity);
    newSlice.setBytes(0, existingSlice, 0, existingSlice.length());
    return newSlice;
}

public static Slice allocate(int capacity)
{
    if (capacity == 0) {
        return EMPTY_SLICE;
    }
    return new Slice(capacity);
}

public static Slice wrappedBuffer(byte[] array)
{
    if (array.length == 0) {
        return EMPTY_SLICE;
    }
    return new Slice(array);
}

public static Slice copiedBuffer(ByteBuffer source, int sourceOffset, int length)
{
    Preconditions.checkNotNull(source, "source is null");
    int newPosition = source.position() + sourceOffset;
    return copiedBuffer((ByteBuffer)
source.duplicate().order(ByteOrder.LITTLE_ENDIAN).clear().limit(newPosition + length).position(newPosition));
}

```

```

public static Slice copiedBuffer(ByteBuffer source)
{
    Preconditions.checkNotNull(source, "source is null");
    Slice copy = allocate(source.limit() - source.position());
    copy.setBytes(0, source.duplicate().order(ByteOrder.LITTLE_ENDIAN));
    return copy;
}

```

```

public static Slice copiedBuffer(String string, Charset charset)
{
    Preconditions.checkNotNull(string, "string is null");
    Preconditions.checkNotNull(charset, "charset is null");

    return wrappedBuffer(string.getBytes(charset));
}

```

```

public static ByteBuffer encodeString(CharBuffer src, Charset charset)
{
    final CharsetEncoder encoder = getEncoder(charset);
    final ByteBuffer dst = ByteBuffer.allocate(
        (int) ((double) src.remaining() * encoder.maxBytesPerChar()));
    try {
        CoderResult cr = encoder.encode(src, dst, true);
        if (!cr.isUnderflow()) {
            cr.throwException();
        }
        cr = encoder.flush(dst);
        if (!cr.isUnderflow()) {
            cr.throwException();
        }
    }
    catch (CharacterCodingException x) {
        throw new IllegalStateException(x);
    }
    dst.flip();
    return dst;
}

```

```

public static String decodeString(ByteBuffer src, Charset charset)
{
    final CharsetDecoder decoder = getDecoder(charset);
    final CharBuffer dst = CharBuffer.allocate(
        (int) ((double) src.remaining() * decoder.maxCharsPerByte()));
    try {
        CoderResult cr = decoder.decode(src, dst, true);
        if (!cr.isUnderflow()) {
            cr.throwException();
        }
    }
}

```

```

        cr = decoder.flush(dst);
        if (!cr.isUnderflow()) {
            cr.throwException();
        }
    }
    catch (CharacterCodingException x) {
        throw new IllegalStateException(x);
    }
    return dst.flip().toString();
}

/**
 * Toggles the endianness of the specified 16-bit short integer.
 */
public static short swapShort(short value)
{
    return (short) (value << 8 | value >>> 8 & 0xff);
}

/**
 * Toggles the endianness of the specified 32-bit integer.
 */
public static int swapInt(int value)
{
    return swapShort((short) value) << 16 |
        swapShort((short) (value >>> 16)) & 0xffff;
}

/**
 * Toggles the endianness of the specified 64-bit long integer.
 */
public static long swapLong(long value)
{
    return (long) swapInt((int) value) << 32 |
        swapInt((int) (value >>> 32)) & 0xffffffffL;
}

private static final ThreadLocal<Map<Charset, CharsetEncoder>> encoders =
    new ThreadLocal<Map<Charset, CharsetEncoder>>()
    {
        @Override
        protected Map<Charset, CharsetEncoder> initialValue()
        {
            return new IdentityHashMap<Charset, CharsetEncoder>();
        }
    };

private static final ThreadLocal<Map<Charset, CharsetDecoder>> decoders =

```

```

new ThreadLocal<Map<Charset, CharsetDecoder>>()
{
    @Override
    protected Map<Charset, CharsetDecoder> initialValue()
    {
        return new IdentityHashMap<Charset, CharsetDecoder>();
    }
};

/**
 * Returns a cached thread-local { @link CharsetEncoder } for the specified
 * <tt>charset</tt>.
 */
private static CharsetEncoder getEncoder(Charset charset)
{
    if (charset == null) {
        throw new NullPointerException("charset");
    }

    Map<Charset, CharsetEncoder> map = encoders.get();
    CharsetEncoder e = map.get(charset);
    if (e != null) {
        e.reset();
        e.onMalformedInput(CodingErrorAction.REPLACE);
        e.onUnmappableCharacter(CodingErrorAction.REPLACE);
        return e;
    }

    e = charset.newEncoder();
    e.onMalformedInput(CodingErrorAction.REPLACE);
    e.onUnmappableCharacter(CodingErrorAction.REPLACE);
    map.put(charset, e);
    return e;
}

/**
 * Returns a cached thread-local { @link CharsetDecoder } for the specified
 * <tt>charset</tt>.
 */
private static CharsetDecoder getDecoder(Charset charset)
{
    if (charset == null) {
        throw new NullPointerException("charset");
    }

    Map<Charset, CharsetDecoder> map = decoders.get();
    CharsetDecoder d = map.get(charset);

```

```

    if (d != null) {
        d.reset();
        d.onMalformedInput(CodingErrorAction.REPLACE);
        d.onUnmappableCharacter(CodingErrorAction.REPLACE);
        return d;
    }

    d = charset.newDecoder();
    d.onMalformedInput(CodingErrorAction.REPLACE);
    d.onUnmappableCharacter(CodingErrorAction.REPLACE);
    map.put(charset, d);
    return d;
}
}

```

## 8.184 leveldbjni-all 1.8

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# 8.185 Log4J 1.2.16

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## 8.186 maven 3.0.5

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## 8.203 netty 4.0.23 4.0.23.Final

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 */

```

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

```
import io.netty.util.ResourceLeak;
```

```
import java.nio.ByteOrder;
```

```
final class SimpleLeakAwareByteBuf extends WrappedByteBuf {
```

```
    private final ResourceLeak leak;
```

```
    SimpleLeakAwareByteBuf(ByteBuf buf, ResourceLeak leak) {
```

```
        super(buf);
```

```
        this.leak = leak;
```

```
    }
```

```

@Override
public boolean release() {
    boolean deallocated = super.release();
    if (deallocated) {
        leak.close();
    }
    return deallocated;
}

@Override
public boolean release(int decrement) {
    boolean deallocated = super.release(decrement);
    if (deallocated) {
        leak.close();
    }
    return deallocated;
}

@Override
public ByteBuf order(ByteOrder endianness) {
    leak.record();
    if (order() == endianness) {
        return this;
    } else {
        return new SimpleLeakAwareByteBuf(super.order(endianness), leak);
    }
}

@Override
public ByteBuf slice() {
    return new SimpleLeakAwareByteBuf(super.slice(), leak);
}

@Override
public ByteBuf slice(int index, int length) {
    return new SimpleLeakAwareByteBuf(super.slice(index, length), leak);
}

@Override
public ByteBuf duplicate() {
    return new SimpleLeakAwareByteBuf(super.duplicate(), leak);
}

@Override
public ByteBuf readSlice(int length) {
    return new SimpleLeakAwareByteBuf(super.readSlice(length), leak);
}

```

```

}
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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 ByteBuf#slice()} and
 * {@link ByteBuf#slice(int, int)} instead of calling the constructor
 * explicitly.
 */
public class SlicedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;
    private final int adjustment;
    private final int length;

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

    if (buffer instanceof SlicedByteBuf) {
        this.buffer = ((SlicedByteBuf) buffer).buffer;
        adjustment = ((SlicedByteBuf) buffer).adjustment + index;
    }

```

```

    } else if (buffer instanceof DuplicatedByteBuf) {
        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.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 ByteBuf#duplicate()} instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;

    public DuplicatedByteBuf(ByteBuf buffer) {
        super(buffer.maxCapacity());

        if (buffer instanceof DuplicatedByteBuf) {

```

```

        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 ByteBuffer 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 ByteBuffer getBytes(int index, ByteBuffer dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

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

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

@Override
public ByteBuffer setByte(int index, int value) {

```

```

    _setByte(index, value);
    return this;
}

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

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

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

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

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

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

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

@Override
public ByteBuffer 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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 */

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();
    }
}

```

}

## 8.204 netty:jar 3.8.0.Final

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## 8.209 osgi.cmpn 5.0.0

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```

*/

package org.osgi.application;

import java.util.Dictionary;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.ServiceRegistration;

/**
 * { @code ApplicationContext } is the access point for an OSGi-aware application
 * to the features of the OSGi Service Platform. Each application instance will
 * have its own { @code ApplicationContext } instance, which will not be reused
 * after destroying the corresponding application instance.
 * <p>
 * Application instances can obtain their { @code ApplicationContext } using the
 * { @link Framework#getApplicationContext(Object) } method.
 * <p>
 * The lifecycle of an { @code ApplicationContext } instance is bound to the
 * lifecycle of the corresponding application instance. The
 * { @code ApplicationContext } becomes available when the application is started
 * and it is invalidated when the application instance is stopped (i.e. the
 * "stop" method of the application activator object returned). All method calls
 * (except { @link #getId() } and { @link #getInstanceId() }) to an
 * invalidated context object result an { @code IllegalStateException }.
 *
 * @see org.osgi.application.Framework
 *
 * @author $Id: 51dddaacd80155f9c1b38fed6211a466447d4a $
 */
public interface ApplicationContext {

/**
 * Adds the specified { @link ApplicationServiceListener } object to this
 * context application instance's list of listeners. The specified
 * { @code referenceName } is a reference name specified in the descriptor of
 * the corresponding application. The registered { @code listener } will only
 * receive the { @link ApplicationServiceEvent }s related to the referred
 * service.
 * <p>
 * If the { @code listener } was already added, calling this method will
 * overwrite the previous registration.
 * <p>
 *
 * @param listener The
 *     { @link org.osgi.application.ApplicationServiceListener } to be
 *     added. It must not be { @code null }
 * @param referenceName the reference name of a service from the descriptor

```

```

*   of the corresponding application. It must not be {@code null}.
*   @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
*   @throws java.lang.NullPointerException If {@code listener} or
*   {@code referenceName} is {@code null}
*   @throws java.lang.IllegalArgumentException If there is no service in the
*   application descriptor with the specified {@code referenceName}.
*/
public void addServiceListener(ApplicationServiceListener listener, String referenceName) throws
java.lang.IllegalArgumentException;

/**
* Adds the specified {@link ApplicationServiceListener} object to this
* context application instance's list of listeners. The
* {@code referenceNames} parameter is an array of reference name specified
* in the descriptor of the corresponding application. The registered
* {@code listener} will only receive the {@link ApplicationServiceEvent}s
* related to the referred services.
* <p>
* If the {@code listener} was already added, calling this method will
* overwrite the previous registration.
* <p>
*
* @param listener The
*   {@link org.osgi.application.ApplicationServiceListener} to be
*   added. It must not be {@code null}
* @param referenceNames and array of service reference names from the
*   descriptor of the corresponding application. It must not be
*   {@code null} and it must not be empty.
* @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
* @throws java.lang.NullPointerException If {@code listener} or
*   {@code referenceNames} is {@code null}
* @throws java.lang.IllegalArgumentException If {@code referenceNames}
*   array is empty or it contains unknown references
*/
public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws
java.lang.IllegalArgumentException;

/**
* Removes the specified
* {@link org.osgi.application.ApplicationServiceListener} object from this
* context application instances's list of listeners.
* <p>
* If {@code listener} is not contained in this context application
* instance's list of listeners, this method does nothing.
*
* @param listener The

```

```

*   { @link org.osgi.application.ApplicationServiceListener } object to
*   be removed.
*   @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
*/
public void removeServiceListener(ApplicationServiceListener listener);

/**
* This method returns the identifier of the corresponding application
* instance. This identifier is guaranteed to be unique within the scope of
* the device.
*
* Note: this method can safely be called on an invalid
* { @code ApplicationContext } as well.
*
* @see org.osgi.service.application.ApplicationHandle#getInstanceId()
*
* @return the unique identifier of the corresponding application instance
*/
public String getInstanceId();

/**
* This method return the identifier of the corresponding application type.
* This identifier is the same for the different instances of the same
* application but it is different for different application type.
* <p>
* Note: this method can safely be called on an invalid
* { @code ApplicationContext } as well.
*
* @see org.osgi.service.application.ApplicationDescriptor#getApplicationId()
*
* @return the identifier of the application type.
*/
public String getApplicationId();

/**
* This method returns the service object for the specified
* { @code referenceName }. If the cardinality of the reference is 0..n or
* 1..n and multiple services are bound to the reference, the service with
* the highest ranking (as specified in its
* { @link org.osgi.framework.Constants#SERVICE_RANKING } property) is
* returned. If there is a tie in ranking, the service with the lowest
* service ID (as specified in its
* { @link org.osgi.framework.Constants#SERVICE_ID } property); that is, the
* service that was registered first is returned.
*
* @param referenceName The name of a reference as specified in a reference
* element in this context applications's description. It must not be

```

```

*   { @code null }
* @return A service object for the referenced service or { @code null } if
*   the reference cardinality is 0..1 or 0..n and no bound service is
*   available.
* @throws java.lang.NullPointerException If { @code referenceName } is
*   { @code null }.
* @throws java.lang.IllegalArgumentException If there is no service in the
*   application descriptor with the specified { @code referenceName }.
* @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
*/
public Object locateService(String referenceName);

/**
* This method returns the service objects for the specified
* { @code referenceName }.
*
* @param referenceName The name of a reference as specified in a reference
*   element in this context applications's description. It must not be
*   { @code null }.
* @return An array of service object for the referenced service or
*   { @code null } if the reference cardinality is 0..1 or 0..n and no
*   bound service is available.
* @throws java.lang.NullPointerException If { @code referenceName } is
*   { @code null }.
* @throws java.lang.IllegalArgumentException If there is no service in the
*   application descriptor with the specified { @code referenceName }.
* @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
*/
public Object[] locateServices(String referenceName);

/**
* Returns the startup parameters specified when calling the
* { @code org.osgi.service.application.ApplicationDescriptor#launch(Map) }
* method.
* <p>
* Startup arguments can be specified as name, value pairs. The name must be
* of type { @link java.lang.String }, which must not be { @code null } or empty
* { @link java.lang.String } ( { @code "" } ), the value can be any object
* including { @code null }.
*
* @return a { @link java.util.Map } containing the startup arguments. It can
*   be { @code null }.
* @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
*/
public Map getStartupParameters();

```

```

/**
 * Application can query the service properties of a service object it is
 * bound to. Application gets bound to a service object when it first
 * obtains a reference to the service by calling { @code locateService } or
 * { @code locateServices } methods.
 *
 * @param serviceObject A service object the application is bound to. It
 *     must not be null.
 * @return The service properties associated with the specified service
 *     object.
 * @throws NullPointerException if the specified { @code serviceObject } is
 *     { @code null}
 * @throws IllegalArgumentException if the application is not bound to the
 *     specified service object or it is not a service object at all.
 * @throws java.lang.IllegalStateException If this context application
 *     instance has stopped.
 */
public Map getServiceProperties(Object serviceObject);

/**
 * Registers the specified service object with the specified properties
 * under the specified class names into the Framework. A
 * { @link org.osgi.framework.ServiceRegistration } object is returned. The
 * { @link org.osgi.framework.ServiceRegistration } object is for the private
 * use of the application registering the service and should not be shared
 * with other applications. The registering application is defined to be the
 * context application. Bundles can locate the service by using either the
 * { @link org.osgi.framework.BundleContext#getServiceReferences(String, String) }
 * or { @link org.osgi.framework.BundleContext#getServiceReference(String) }
 * method. Other applications can locate this service by using
 * { @link #locateService(String) } or { @link #locateServices(String) } method,
 * if they declared their dependence on the registered service.
 *
 * <p>
 * An application can register a service object that implements the
 * { @link org.osgi.framework.ServiceFactory } interface to have more
 * flexibility in providing service objects to other applications or
 * bundles.
 *
 * <p>
 * The following steps are required to register a service:
 * <ol>
 * <li>If { @code service } is not a { @code ServiceFactory }, an
 * { @code IllegalArgumentException } is thrown if { @code service } is not an
 * { @code instanceof } all the classes named.</li>
 * <li>The Framework adds these service properties to the specified
 * { @code Dictionary } (which may be { @code null }): a property named

```

\* {[@link org.osgi.framework.Constants#SERVICE\\_ID](#)} identifying the registration number of the service and a property named

\* {[@link org.osgi.framework.Constants#OBJECTCLASS](#)} containing all the specified classes. If any of these properties have already been specified by the registering bundle, their values will be overwritten by the Framework.

</li>The service is added to the Framework service registry and may now be used by others.

</li>A service event of type {[@link org.osgi.framework.ServiceEvent#REGISTERED](#)} is fired. This event triggers the corresponding {[@link ApplicationServiceEvent](#)} to be delivered to the applications that registered the appropriate listener.

</li>A {`ServiceRegistration`} object for this registration is returned.

</ol>

\*  
 \* @param clazzes The class names under which the service can be located. The class names in this array will be stored in the service's properties under the key {[@link org.osgi.framework.Constants#OBJECTCLASS](#)}. This parameter must not be {`null`}.

\* @param service The service object or a {`ServiceFactory`} object.

\* @param properties The properties for this service. The keys in the properties object must all be {`String`} objects. See {[@link org.osgi.framework.Constants](#)} for a list of standard service property keys. Changes should not be made to this object after calling this method. To update the service's properties the {[@link org.osgi.framework.ServiceRegistration#setProperties\(Dictionary\)](#)} method must be called. The set of properties may be {`null`} if the service has no properties.

\*  
 \* @return A {[@link org.osgi.framework.ServiceRegistration](#)} object for use by the application registering the service to update the service's properties or to unregister the service.

\*  
 \* @throws java.lang.IllegalArgumentException If one of the following is true:

- \* <ul>
- \* <li>{`service`} is {`null`}.
- \* <li>{`service`} is not a {`ServiceFactory`} object and is not an instance of all the named classes in {`clazzes`}.
- \* <li>{`properties`} contains case variants of the same key name.

\* </ul>

\* @throws NullPointerException if {`clazzes`} is {`null`}

\*  
 \* @throws java.lang.SecurityException If the caller does not have the {`ServicePermission`} to register the service for all the named classes and the Java Runtime Environment supports

```

*   permissions.
*
* @throws java.lang.IllegalStateException If this ApplicationContext is no
*   longer valid.
*
* @see org.osgi.framework.BundleContext#registerService(java.lang.String[],
*   java.lang.Object, java.util.Dictionary)
* @see org.osgi.framework.ServiceRegistration
* @see org.osgi.framework.ServiceFactory
*/
public ServiceRegistration registerService(String[] clazzes, Object service, Dictionary properties);

/**
 * Registers the specified service object with the specified properties
 * under the specified class name with the Framework.
 *
 * <p>
 * This method is otherwise identical to
 * { @link #registerService(java.lang.String[], java.lang.Object, java.util.Dictionary)}
 * and is provided as a convenience when { @code service} will only be
 * registered under a single class name. Note that even in this case the
 * value of the service's { @link Constants#OBJECTCLASS} property will be an
 * array of strings, rather than just a single string.
 *
 * @param clazz The class name under which the service can be located. It
 *   must not be { @code null}
 * @param service The service object or a { @code ServiceFactory} object.
 * @param properties The properties for this service.
 *
 * @return A { @code ServiceRegistration} object for use by the application
 *   registering the service to update the service's properties or to
 *   unregister the service.
 *
 * @throws java.lang.IllegalArgumentException If one of the following is
 *   true:
 *   <ul>
 *   <li>{ @code service} is { @code null}.</li><li>{ @code service} is
 *   not a { @code ServiceFactory} object and is not an instance of the
 *   named class in { @code clazz}.</li><li>{ @code properties} contains
 *   case variants of the same key name.</li>
 *   </ul>
 * @throws NullPointerException if { @code clazz} is { @code null}
 *
 * @throws java.lang.SecurityException If the caller does not have the
 *   { @code ServicePermission} to register the service the named class
 *   and the Java Runtime Environment supports permissions.
 *
 * @throws java.lang.IllegalStateException If this ApplicationContext is no

```

```

*   longer valid.
*   @see #registerService(java.lang.String[], java.lang.Object,
*       java.util.Dictionary)
*/
public ServiceRegistration registerService(String clazz, Object service, Dictionary properties);
}
/*
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* limitations under the License.
*/

package org.osgi.application;

import org.osgi.framework.ServiceEvent;
import org.osgi.framework.ServiceReference;

/**
* An event from the Framework describing a service lifecycle change.
* <p>
* { @code ApplicationServiceEvent } objects are delivered to a
* { @code ApplicationServiceListener } objects when a change occurs in this
* service's lifecycle. The delivery of an { @code ApplicationServiceEvent } is
* always triggered by a { @link org.osgi.framework.ServiceEvent }.
* { @code ApplicationServiceEvent } extends the content of { @code ServiceEvent }
* with the service object the event is referring to as applications has no
* means to find the corresponding service object for a
* { @link org.osgi.framework.ServiceReference }. A type code is used to identify
* the event type for future extendability. The available type codes are defined
* in { @link org.osgi.framework.ServiceEvent }.
*
* <p>
* OSGi Alliance reserves the right to extend the set of types.
*
* @see org.osgi.framework.ServiceEvent
* @see ApplicationServiceListener
*
* @author $Id: feb6a13123707549d3efdb5f06ba69ee82368cb9 $

```



```

*/
public class ApplicationServiceEvent extends ServiceEvent {

    private static final long serialVersionUID = -4762149286971897323L;
    final Object    serviceObject;

    /**
     * Creates a new application service event object.
     *
     * @param type The event type. Available type codes are defines in
     *     { @link org.osgi.framework.ServiceEvent }
     * @param reference A { @code ServiceReference } object to the service that
     *     had a lifecycle change. This reference will be used as the
     *     { @code source } in the { @link java.util.EventObject } baseclass,
     *     therefore, it must not be null.
     * @param serviceObject The service object bound to this application
     *     instance. It can be { @code null } if this application is not bound
     *     to this service yet.
     * @throws IllegalArgumentException if the specified { @code reference } is
     *     null.
     */
    public ApplicationServiceEvent(int type, ServiceReference reference, Object serviceObject) {
        super(type, reference);
        this.serviceObject = serviceObject;
    }

    /**
     * This method returns the service object of this service bound to the
     * listener application instance. A service object becomes bound to the
     * application when it first obtains a service object reference to that
     * service by calling the { @code ApplicationContext.locateService } or
     * { @code locateServices } methods. If the application is not bound to the
     * service yet, this method returns { @code null }.
     *
     * @return the service object bound to the listener application or
     *     { @code null } if it isn't bound to this service yet.
     */
    public Object getServiceObject() {
        return this.serviceObject;
    }

}

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package org.osgi.application;
```

```
import java.util.EventListener;
import org.osgi.framework.*;
```

```
/**
 * An {@code ApplicationServiceEvent} listener. When a {@code ServiceEvent} is
 * fired, it is converted to an {@code ApplicationServiceEvent} and it is
 * synchronously delivered to an {@code ApplicationServiceListener}.
 *
 * <p>
 * {@code ApplicationServiceListener} is a listener interface that may be
 * implemented by an application developer.
 *
 * <p>
 * An {@code ApplicationServiceListener} object is registered with the Framework
 * using the {@code ApplicationContext.addServiceListener} method.
 * {@code ApplicationServiceListener} objects are called with an
 * {@code ApplicationServiceEvent} object when a service is registered,
 * modified, or is in the process of unregistering.
 *
 * <p>
 * {@code ApplicationServiceEvent} object delivery to
 * {@code ApplicationServiceListener} objects is filtered by the filter
 * specified when the listener was registered. If the Java Runtime Environment
 * supports permissions, then additional filtering is done.
 * {@code ApplicationServiceEvent} objects are only delivered to the listener if
 * the application which defines the listener object's class has the appropriate
 * {@code ServicePermission} to get the service using at least one of the named
 * classes the service was registered under, and the application specified its
 * dependence on the corresponding service in the application metadata.
 *
 * <p>
 * {@code ApplicationServiceEvent} object delivery to
 * {@code ApplicationServiceListener} objects is further filtered according to
 * package sources as defined in
 * {@link ServiceReference#isAssignableTo(Bundle, String)}.
 *
 * @author $Id: 406895df9d8ba1a250de7fb9d49da1d0a18abc5b $
```

```

* @see ApplicationServiceEvent
* @see ServicePermission
*/
public interface ApplicationServiceListener extends EventListener {
/**
 * Receives notification that a service has had a lifecycle change.
 *
 * @param event The {@code ApplicationServiceEvent} object.
 */
public void serviceChanged(ApplicationServiceEvent event);
}
/*
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 * limitations under the License.
 */

package org.osgi.service.application;

import java.security.Permission;
import java.util.Hashtable;
import java.util.StringTokenizer;
import java.util.Vector;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * This class implements permissions for manipulating applications and their
 * instances.
 *
 * <P>
 * ApplicationAdminPermission can be targeted to applications that matches the
 * specified filter.
 *
 * <P>
 * ApplicationAdminPermission may be granted for different actions:
 *
 * { @code lifecycle}, { @code schedule} and { @code lock}. The permission
 * { @code schedule} implies the permission { @code lifecycle}.
 *
 */

```

```

* @author $Id: c8c799ae29ff5bb6095e22d201b47a3445eb42cb $
*/
public class ApplicationAdminPermission extends Permission {
    private static final long serialVersionUID = 1L;

    /**
     * Allows the lifecycle management of the target applications.
     */
    public static final String LIFECYCLE_ACTION = "lifecycle";

    /**
     * Allows scheduling of the target applications. The permission to schedule
     * an application implies that the scheduler can also manage the lifecycle
     * of that application i.e. {@code schedule} implies {@code lifecycle}
     */
    public static final String SCHEDULE_ACTION = "schedule";

    /**
     * Allows setting/unsetting the locking state of the target applications.
     */
    public static final String LOCK_ACTION = "lock";

    private ApplicationDescriptor applicationDescriptor;

    /**
     * Constructs an ApplicationAdminPermission. The {@code filter} specifies
     * the target application. The {@code filter} is an LDAP-style filter, the
     * recognized properties are {@code signer} and {@code pid}. The pattern
     * specified in the {@code signer} is matched with the Distinguished Name
     * chain used to sign the application. Wildcards in a DN are not matched
     * according to the filter string rules, but according to the rules defined
     * for a DN chain. The attribute {@code pid} is matched with the PID of the
     * application according to the filter string rules.
     * <p>
     * If the {@code filter} is {@code null} then it matches {@code "*"}. If
     * {@code actions} is {@code "*" } then it identifies all the possible
     * actions.
     *
     * @param filter filter to identify application. The value {@code null} is
     *     equivalent to {@code "*" } and it indicates "all application".
     * @param actions comma-separated list of the desired actions granted on the
     *     applications or "*" means all the actions. It must not be
     *     {@code null}. The order of the actions in the list is not
     *     significant.
     * @throws InvalidSyntaxException is thrown if the specified {@code filter}
     *     is not syntactically correct.
     *
     * @exception NullPointerException is thrown if the actions parameter is

```

```

*      { @code null }
*
* @see ApplicationDescriptor
* @see org.osgi.framework.AdminPermission
*/
public ApplicationAdminPermission(String filter, String actions) throws InvalidSyntaxException {
    super(filter == null ? "*" : filter);

    if (filter == null)
        filter = "*";

    if (actions == null)
        throw new NullPointerException("Action string cannot be null!");

    this.applicationDescriptor = null;
    this.filter = (filter == null ? "*" : filter);
    this.actions = actions;

    if (!filter.equals("*") && !filter.equals("<<SELF>>"))
        FrameworkUtil.createFilter(this.filter); // check if the filter is
        // valid
    init();
}

/**
 * This constructor should be used when creating
 * { @code ApplicationAdminPermission } instance for { @code checkPermission }
 * call.
 *
 * @param application the target of the operation, it must not be
 *      { @code null }
 * @param actions the required operation. it must not be { @code null }
 * @throws NullPointerException if any of the arguments is null.
 */
public ApplicationAdminPermission(ApplicationDescriptor application, String actions) {
    super(application.getId());

    if (application == null || actions == null)
        throw new NullPointerException("ApplicationDescriptor and action string cannot be null!");

    this.filter = application.getId();
    this.applicationDescriptor = application;
    this.actions = actions;

    init();
}

/**

```

```

* This method can be used in the { @link java.security.ProtectionDomain}
* implementation in the { @code implies} method to insert the application ID
* of the current application into the permission being checked. This
* enables the evaluation of the { @code <<SELF>>} pseudo targets.
*
* @param applicationId the ID of the current application.
* @return the permission updated with the ID of the current application
*/
public ApplicationAdminPermission setCurrentApplicationId(String applicationId) {
    ApplicationAdminPermission newPerm = null;

    if (this.applicationDescriptor == null) {
        try {
            newPerm = new ApplicationAdminPermission(this.filter, this.actions);
        } catch (InvalidSyntaxException e) {
            throw new RuntimeException(e); /* this can never happen */
        }
    } else
        newPerm = new ApplicationAdminPermission(this.applicationDescriptor, this.actions);

    newPerm.applicationID = applicationId;

    return newPerm;
}

/**
* Checks if the specified { @code permission} is implied by this permission.
* The method returns true under the following conditions:
* <ul>
* <li>This permission was created by specifying a filter (see
* { @link #ApplicationAdminPermission(String, String)})</li>
* <li>The implied { @code otherPermission} was created for a particular
* { @link ApplicationDescriptor} (see
* { @link #ApplicationAdminPermission(ApplicationDescriptor, String)})</li>
* <li>The { @code filter} of this permission matches the
* { @code ApplicationDescriptor} specified in the { @code otherPermission}.
* If the filter in this permission is the { @code <<SELF>>} pseudo target,
* then the currentApplicationId set in the { @code otherPermission} is
* compared to the application Id of the target
* { @code ApplicationDescriptor}.</li>
* <li>The list of permitted actions in this permission contains all actions
* required in the { @code otherPermission}</li>
* </ul>
* Otherwise the method returns false.
*
* @param otherPermission the implied permission
* @return true if this permission implies the { @code otherPermission},
* false otherwise.

```

```

*/
public boolean implies(Permission otherPermission) {
    if (otherPermission == null)
        return false;

    if (!(otherPermission instanceof ApplicationAdminPermission))
        return false;

    ApplicationAdminPermission other = (ApplicationAdminPermission) otherPermission;

    if (!filter.equals("*")) {
        if (other.applicationDescriptor == null)
            return false;

        if (filter.equals("<<SELF>>")) {
            if (other.applicationID == null)
                return false; /* it cannot be, this might be a bug */

            if (!other.applicationID.equals(other.applicationDescriptor.getApplicationId()))
                return false;
        } else {
            Hashtable props = new Hashtable();
            props.put("pid", other.applicationDescriptor.getApplicationId());
            props.put("signer", new SignerWrapper(other.applicationDescriptor));

            Filter flt = getFilter();
            if (flt == null)
                return false;

            if (!flt.match(props))
                return false;
        }
    }

    if (!actionsVector.containsAll(other.actionsVector))
        return false;

    return true;
}

public boolean equals(Object with) {
    if (with == null || !(with instanceof ApplicationAdminPermission))
        return false;

    ApplicationAdminPermission other = (ApplicationAdminPermission) with;

    // Compare actions:
    if (other.actionsVector.size() != actionsVector.size())

```

```

return false;

for (int i = 0; i != actionsVector.size(); i++)
    if (!other.actionsVector.contains(actionsVector.get(i)))
        return false;

return equal(this.filter, other.filter) && equal(this.applicationDescriptor, other.applicationDescriptor) &&
equal(this.applicationID, other.applicationID);
}

/**
 * Compares parameters for equality. If both object are null, they are
 * considered equal.
 *
 * @param a object to compare
 * @param b other object to compare
 * @return true if both objects are equal or both are null
 */
private static boolean equal(Object a, Object b) {
// This equation is true if both references are null or both point
// to the same object. In both cases they are considered as equal.
if (a == b) {
return true;
}

return a.equals(b);
}

public int hashCode() {
int hc = 0;
for (int i = 0; i != actionsVector.size(); i++)
    hc ^= ((String) actionsVector.get(i)).hashCode();
hc ^= (null == this.filter) ? 0 : this.filter.hashCode();
hc ^= (null == this.applicationDescriptor) ? 0 : this.applicationDescriptor.hashCode();
hc ^= (null == this.applicationID) ? 0 : this.applicationID.hashCode();
return hc;
}

/**
 * Returns the actions of this permission.
 *
 * @return the actions specified when this permission was created
 */
public String getActions() {
return actions;
}

private String applicationID;

```



```

private static final Vector ACTIONS = new Vector();
private Vector actionsVector;
private final String filter;
private final String actions;
private Filter appliedFilter = null;

static {
    ACTIONS.add(LIFECYCLE_ACTION);
    ACTIONS.add(SCHEDULE_ACTION);
    ACTIONS.add(LOCK_ACTION);
}

private static Vector actionsVector(String actions) {
    Vector v = new Vector();
    StringTokenizer t = new StringTokenizer(actions.toUpperCase(), ",");
    while (t.hasMoreTokens()) {
        String action = t.nextToken().trim();
        v.add(action.toLowerCase());
    }

    if (v.contains(SCHEDULE_ACTION) && !v.contains(LIFECYCLE_ACTION))
        v.add(LIFECYCLE_ACTION);

    return v;
}

private static class SignerWrapper extends Object {
    private String pattern;
    private ApplicationDescriptor appDesc;

    /**
     * @param pattern
     */
    public SignerWrapper(String pattern) {
        this.pattern = pattern;
    }

    SignerWrapper(ApplicationDescriptor appDesc) {
        this.appDesc = appDesc;
    }

    public boolean equals(Object o) {
        if (!(o instanceof SignerWrapper))
            return false;
        SignerWrapper other = (SignerWrapper) o;
        ApplicationDescriptor matchAppDesc = appDesc != null ? appDesc : other.appDesc;
        String matchPattern = appDesc != null ? other.pattern : pattern;

```

```

    return matchAppDesc.matchDNChain(matchPattern);
}
}

private void init() {
    actionsVector = actionsVector(actions);

    if (actions.equals(""))
        actionsVector = actionsVector(LIFECYCLE_ACTION + "," + SCHEDULE_ACTION + "," + LOCK_ACTION);
    else
        if (!ACTIONS.containsAll(actionsVector))
            throw new IllegalArgumentException("Illegal action!");

    applicationID = null;
}

private Filter getFilter() {
    if (appliedFilter == null) {
        try {
            appliedFilter = FrameworkUtil.createFilter(filter);
        } catch (InvalidSyntaxException e) {
            // we will return null
        }
    }
    return appliedFilter;
}
}
/*
 * Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;

```

```

import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.InvalidSyntaxException;

/**
 * An OSGi service that represents an installed application and stores
 * information about it. The application descriptor can be used for instance
 * creation.
 *
 * @author $Id: 991343b4701de961cbb87126ededcc00685811f0 $
 */

public abstract class ApplicationDescriptor {
    /**
     * NOTE: An implementor may also choose to replace this class in their
     * distribution with a class that directly interfaces with the
     * org.osgi.service.application implementation. This replacement class MUST
     * NOT alter the public/protected signature of this class.
     */

    /**
     * The property key for the localized name of the application.
     */
    public static final String APPLICATION_NAME = "application.name";

    /**
     * The property key for the localized icon of the application.
     */
    public static final String APPLICATION_ICON = "application.icon";

    /**
     * The property key for the unique identifier (PID) of the application.
     */
    public static final String APPLICATION_PID = Constants.SERVICE_PID;

    /**
     * The property key for the version of the application.
     */
    public static final String APPLICATION_VERSION = "application.version";

    /**
     * The property key for the name of the application vendor.
     */
    public static final String APPLICATION_VENDOR = Constants.SERVICE_VENDOR;

    /**

```

```

* The property key for the visibility property of the application.
*/
public static final String APPLICATION_VISIBLE = "application.visible";

/**
* The property key for the launchable property of the application.
*/
public static final String APPLICATION_LAUNCHABLE = "application.launchable";

/**
* The property key for the locked property of the application.
*/
public static final String APPLICATION_LOCKED = "application.locked";

/**
* The property key for the localized description of the application.
*/
public static final String APPLICATION_DESCRIPTION = "application.description";

/**
* The property key for the localized documentation of the application.
*/
public static final String APPLICATION_DOCUMENTATION = "application.documentation";

/**
* The property key for the localized copyright notice of the application.
*/
public static final String APPLICATION_COPYRIGHT = "application.copyright";

/**
* The property key for the localized license of the application.
*/
public static final String APPLICATION_LICENSE = "application.license";

/**
* The property key for the application container of the application.
*/
public static final String APPLICATION_CONTAINER = "application.container";

/**
* The property key for the location of the application.
*/
public static final String APPLICATION_LOCATION = "application.location";

private final String pid;

/**
* Constructs the {@code ApplicationDescriptor}.

```

```

*
* @param applicationId The identifier of the application. Its value is also
*   available as the {@code service.pid} service property of this
*   {@code ApplicationDescriptor} service. This parameter must not be
*   {@code null}.
* @throws NullPointerException if the specified {@code applicationId} is
*   null.
*/
protected ApplicationDescriptor(String applicationId) {
    if (null == applicationId) {
        throw new NullPointerException("Application ID must not be null!");
    }

    this.pid = applicationId;
    try {
        delegate = new Delegate();
        delegate.setApplicationDescriptor(this, applicationId);
    } catch (Exception e) {
        // Too bad ...
        e.printStackTrace();
        System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
    }
}

/**
 * Returns the identifier of the represented application.
 *
 * @return the identifier of the represented application
 */
public final String getApplicationId() {
    return pid;
}

/**
 * This method verifies whether the specified {@code pattern} matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.
 *
 * <p>
 * The {@code pattern} must adhere to the syntax defined in
 * {@link org.osgi.service.application.ApplicationAdminPermission} for
 * signer attributes.
 *
 * <p>
 * This method is used by
 * {@link ApplicationAdminPermission#implies(java.security.Permission)}
 * method to match target {@code ApplicationDescriptor} and filter.
 *
 * @param pattern a pattern for a chain of Distinguished Names. It must not
 *   be null.

```

```

* @return { @code true } if the specified pattern matches at least one of the
*     certificate chains used to authenticate this application
* @throws NullPointerException if the specified { @code pattern } is null.
* @throws IllegalStateException if the application descriptor was
*     unregistered
*/
public abstract boolean matchDNChain(String pattern);

/**
* Returns the properties of the application descriptor as key-value pairs.
* The return value contains the locale aware and unaware properties as
* well. The returned { @code Map } will include the service properties of
* this { @code ApplicationDescriptor } as well.
* <p>
* This method will call the { @code getPropertiesSpecific } method to enable
* the container implementation to insert application model and/or container
* implementation specific properties.
* <p>
* The returned { @link java.util.Map } will contain the standard OSGi service
* properties as well (e.g. service.id, service.vendor etc.) and specialized
* application descriptors may offer further service properties. The
* returned Map contains a snapshot of the properties. It will not reflect
* further changes in the property values nor will the update of the Map
* change the corresponding service property.
*
* @param locale the locale string, it may be null, the value null means the
*     default locale. If the provided locale is the empty String (
*     { @code "" }) then raw (non-localized) values are returned.
*
* @return copy of the service properties of this application descriptor
*     service, according to the specified locale. If locale is null
*     then the default locale's properties will be returned. (Since
*     service properties are always exist it cannot return null.)
*
* @throws IllegalStateException if the application descriptor is
*     unregistered
*/
public final Map getProperties(String locale) {
    Map props = getPropertiesSpecific(locale);

    /* currently the ApplicationDescriptor manages the load/save of locking */
    boolean isLocked = delegate.isLocked(); // the real locking state
    Boolean containerLocked = (Boolean) props.remove(APPLICATION_LOCKED);
    if (containerLocked != null && containerLocked.booleanValue() != isLocked) {
        try {
            if (isLocked) /* if the container's information is not correct */
                lockSpecific(); /*
                    * about the locking state (after loading

```

```

        * the lock states)
        */
    else
        unlockSpecific();
    } catch (Exception e) {
    }
}
/*
 * replace the container's lock with the application model's lock,
 * that's the correct
 */
props.put(APPLICATION_LOCKED, new Boolean(isLocked));
return props;
}

/**
 * Container implementations can provide application model specific and/or
 * container implementation specific properties via this method.
 *
 * Localizable properties must be returned localized if the provided
 * { @code locale } argument is not the empty String. The value { @code null }
 * indicates to use the default locale, for other values the specified
 * locale should be used.
 *
 * The returned { @link java.util.Map } must contain the standard OSGi service
 * properties as well (e.g. service.id, service.vendor etc.) and specialized
 * application descriptors may offer further service properties. The
 * returned { @code Map } contains a snapshot of the properties. It will not
 * reflect further changes in the property values nor will the update of the
 * Map change the corresponding service property.
 *
 * @param locale the locale to be used for localizing the properties. If
 *     { @code null } the default locale should be used. If it is the empty
 *     String ({ @code "" }) then raw (non-localized) values should be
 *     returned.
 *
 * @return the application model specific and/or container implementation
 *     specific properties of this application descriptor.
 *
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */
protected abstract Map getPropertiesSpecific(String locale);

/**
 * Launches a new instance of an application. The { @code args } parameter
 * specifies the startup parameters for the instance to be launched, it may
 * be null.

```

\* <p>

\* The following steps are made:

- \* <ul>
- \* <li>Check for the appropriate permission.</li>
- \* <li>Check the locking state of the application. If locked then throw an { @link ApplicationException } with the reason code { @link ApplicationException#APPLICATION\_LOCKED }.</li>
- \* <li>Calls the { @code launchSpecific() } method to create and start an application instance.</li>
- \* <li>Returns the { @code ApplicationHandle } returned by the launchSpecific()</li>
- \* </ul>

\* The caller has to have ApplicationAdminPermission(applicationPID, "launch") in order to be able to perform this operation.

\* <p>

\* The { @code Map } argument of the launch method contains startup arguments for the application. The keys used in the Map must be non-null, non-empty { @code String } objects. They can be standard or application specific. OSGi defines the { @code org.osgi.triggeringevent } key to be used to pass the triggering event to a scheduled application, however in the future it is possible that other well-known keys will be defined. To avoid unwanted clashes of keys, the following rules should be applied:

- \* <ul>
- \* <li>The keys starting with the dash (-) character are application specific, no well-known meaning should be associated with them.</li>
- \* <li>Well-known keys should follow the reverse domain name based naming. In particular, the keys standardized in OSGi should start with { @code org.osgi. }.</li>
- \* </ul>

\* <p>

\* The method is synchronous, it return only when the application instance was successfully started or the attempt to start it failed.

\* <p>

\* This method never returns { @code null }. If launching an application fails, the appropriate exception is thrown.

\*  
 \* @param arguments Arguments for the newly launched application, may be null  
 \*  
 \* @return the registered ApplicationHandle, which represents the newly launched application instance. Never returns { @code null }.  
 \*  
 \* @throws SecurityException if the caller doesn't have "lifecycle" ApplicationAdminPermission for the application.  
 \* @throws ApplicationException if starting the application failed  
 \* @throws IllegalStateException if the application descriptor is unregistered  
 \* @throws IllegalArgumentException if the specified { @code Map } contains



```

*     invalid keys (null objects, empty {@code String} or a key that is
*     not {@code String})
*/
public final ApplicationHandle launch(Map arguments) throws ApplicationException {
    try {
        delegate.launch(arguments);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    if (!isLaunchableSpecific())
        throw new ApplicationException(ApplicationException.APPLICATION_NOT_LAUNCHABLE, "Cannot launch
the application!");
    try {
        return launchSpecific(arguments);
    } catch (IllegalStateException ise) {
        throw ise;
    } catch (SecurityException se) {
        throw se;
    } catch (ApplicationException ae) {
        throw ae;
    } catch (Exception t) {
        throw new ApplicationException(ApplicationException.APPLICATION_INTERNAL_ERROR, t);
    }
}

/**
 * Called by launch() to create and start a new instance in an application
 * model specific way. It also creates and registers the application handle
 * to represent the newly created and started instance and registers it.
 * The method is synchronous, it return only when the application instance
 * was successfully started or the attempt to start it failed.
 * <p>
 * This method must not return {@code null}. If launching the application
 * failed, and exception must be thrown.
 *
 * @param arguments the startup parameters of the new application instance,
 *     may be null
 *
 * @return the registered application model specific application handle for
 *     the newly created and started instance.
 *
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 * @throws Exception if any problem occurs.
 */
protected abstract ApplicationHandle launchSpecific(Map arguments) throws Exception;

```

```

/**
 * This method is called by launch() to verify that according to the
 * container, the application is launchable.
 *
 * @return true, if the application is launchable according to the
 *         container, false otherwise.
 *
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
protected abstract boolean isLaunchableSpecific();

/**
 * Schedules the application at a specified event. Schedule information
 * should not get lost even if the framework or the device restarts so it
 * should be stored in a persistent storage. The method registers a
 * {@link ScheduledApplication} service in Service Registry, representing
 * the created schedule.
 *
 * <p>
 * The {@code Map} argument of the method contains startup arguments for the
 * application. The keys used in the Map must be non-null, non-empty
 * {@code String} objects. The argument values must be of primitive types,
 * wrapper classes of primitive types, {@code String} or arrays or
 * collections of these.
 *
 * <p>
 * The created schedules have a unique identifier within the scope of this
 * {@code ApplicationDescriptor}. This identifier can be specified in the
 * {@code scheduleId} argument. If this argument is {@code null}, the
 * identifier is automatically generated.
 *
 *
 * @param scheduleId the identifier of the created schedule. It can be
 *        {@code null}, in this case the identifier is automatically
 *        generated.
 * @param arguments the startup arguments for the scheduled application, may
 *        be null
 * @param topic specifies the topic of the triggering event, it may contain
 *        a trailing asterisk as wildcard, the empty string is treated as
 *        "", must not be null
 * @param eventFilter specifies and LDAP filter to filter on the properties
 *        of the triggering event, may be null
 * @param recurring if the recurring parameter is false then the application
 *        will be launched only once, when the event firstly occurs. If the
 *        parameter is true then scheduling will take place for every event
 *        occurrence; i.e. it is a recurring schedule
 *
 *
 * @return the registered scheduled application service
 *
 */

```

```

* @throws NullPointerException if the topic is { @code null}
* @throws InvalidSyntaxException if the specified { @code eventFilter} is
*   not syntactically correct
* @throws ApplicationException if the schedule couldn't be created. The
*   possible error codes are
*   <ul>
*   <li>
*     { @link ApplicationException#APPLICATION_DUPLICATE_SCHEDULE_ID} if
*     the specified { @code scheduleId} is already used for this
*     { @code ApplicationDescriptor}</li><li>
*     { @link ApplicationException#APPLICATION_SCHEDULING_FAILED} if the
*     scheduling failed due to some internal reason (e.g. persistent
*     storage error).</li> <li>
*     { @link ApplicationException#APPLICATION_INVALID_STARTUP_ARGUMENT}
*     if the specified startup argument doesn't satisfy the type or
*     value constraints of startup arguments.</li>
*   </ul>
* @throws SecurityException if the caller doesn't have "schedule"
*   ApplicationAdminPermission for the application.
* @throws IllegalStateException if the application descriptor is
*   unregistered
* @throws IllegalArgumentException if the specified { @code Map} contains
*   invalid keys (null objects, empty { @code String} or a key that is
*   not { @code String})
*/

public final ScheduledApplication schedule(String scheduleId, Map arguments, String topic, String eventFilter,
boolean recurring) throws InvalidSyntaxException, ApplicationException {
    isLaunchableSpecific(); // checks if the ApplicationDescriptor was
        // already unregistered
    try {
        return delegate.schedule(scheduleId, arguments, topic, eventFilter, recurring);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
}

/**
* Sets the lock state of the application. If an application is locked then
* launching a new instance is not possible. It does not affect the already
* launched instances.
*
* @throws SecurityException if the caller doesn't have "lock"
*   ApplicationAdminPermission for the application.
* @throws IllegalStateException if the application descriptor is
*   unregistered
*/

```

```

public final void lock() {
    try {
        delegate.lock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    lockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been locked and it should update the
 * {@code application.locked} service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */
protected abstract void lockSpecific();

/**
 * Unsets the lock state of the application.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 *     ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */
public final void unlock() {
    try {
        delegate.unlock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    unlockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been unlocked and it should update the
 * {@code application.locked} service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */

```

```
protected abstract void unlockSpecific();
```

```
Delegate delegate;
```

```
/**
```

```
 * This class will load the class named by the  
 * org.osgi.vendor.application.ApplicationDescriptor and delegate method  
 * calls to an instance of the class.
```

```
*/
```

```
static class Delegate {
```

```
    static String cName;
```

```
    static Class implementation;
```

```
    static Method setApplicationDescriptor;
```

```
    static Method isLocked;
```

```
    static Method lock;
```

```
    static Method unlock;
```

```
    static Method schedule;
```

```
    static Method launch;
```

```
    static {
```

```
        AccessController.doPrivileged(new PrivilegedAction() {
```

```
            public Object run() {
```

```
                cName = System.getProperty("org.osgi.vendor.application.ApplicationDescriptor");
```

```
                if (cName == null) {
```

```
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationDescriptor property must be set");
```

```
                }
```

```
            } try {
```

```
                implementation = Class.forName(cName);
```

```
            } catch (ClassNotFoundException e) {
```

```
                throw new NoClassDefFoundError(e.toString());
```

```
            }
```

```
        } try {
```

```
            setApplicationDescriptor = implementation.getMethod("setApplicationDescriptor", new Class[]  
{ApplicationDescriptor.class, String.class});
```

```
            isLocked = implementation.getMethod("isLocked", new Class[] { });
```

```
            lock = implementation.getMethod("lock", new Class[] { });
```

```
            unlock = implementation.getMethod("unlock", new Class[] { });
```

```
            schedule = implementation.getMethod("schedule", new Class[] {String.class, Map.class, String.class, String.class,  
boolean.class});
```

```
            launch = implementation.getMethod("launch", new Class[] {Map.class});
```

```
        } catch (NoSuchMethodException e) {
```

```
            throw new NoSuchMethodError(e.toString());
```

```
        }
```

```
    } return null;
```

```
    }
```

```

    });
}

Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
    try {
        try {
            setApplicationDescriptor.invoke(target, new Object[] {d, pid});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

boolean isLocked() {
    try {
        try {
            return ((Boolean) isLocked.invoke(target, new Object[] { })).booleanValue();
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void lock() {
    try {
        try {

```

```

lock.invoke(target, new Object[] {});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}

```

```

void unlock() {
try {
try {
unlock.invoke(target, new Object[] {});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}
}

```

ScheduledApplication schedule(String scheduleId, Map args, String topic, String filter, boolean recurs) throws InvalidSyntaxException, ApplicationException {

```

try {
try {
return (ScheduledApplication) schedule.invoke(target, new Object[] {scheduleId, args, topic, filter, new
Boolean(recurs)});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (InvalidSyntaxException e) {
throw e;
} catch (ApplicationException e) {
throw e;
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}
}

```

```

    }
}

void launch(Map arguments) throws ApplicationException {
    try {
        try {
            launch.invoke(target, new Object[] {arguments});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (ApplicationException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
}

}
/*
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 *
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 */

package org.osgi.service.application;

/**
 * This exception is used to indicate problems related to application lifecycle
 * management.
 *
 * { @code ApplicationException } object is created by the Application Admin to
 * denote an exception condition in the lifecycle of an application.
 * { @code ApplicationException }s should not be created by developers.

```



```

* {@code ApplicationException}s are associated with an error code. This code
* describes the type of problem reported in this exception. The possible codes
* are:
* <ul>
* <li> {@link #APPLICATION_LOCKED} - The application couldn't be launched
* because it is locked.</li>
* <li> {@link #APPLICATION_NOT_LAUNCHABLE} - The application is not in
* launchable state.</li>
* <li> {@link #APPLICATION_INTERNAL_ERROR} - An exception was thrown by the
* application or its container during launch.</li>
* <li> {@link #APPLICATION_SCHEDULING_FAILED} - The scheduling of an application
* failed.</li>
* <li> {@link #APPLICATION_DUPLICATE_SCHEDULE_ID} - The application scheduling
* failed because the specified identifier is already in use.</li>
* <li> {@link #APPLICATION_EXITVALUE_NOT_AVAILABLE} - The exit value is not
* available for an application instance because the instance has not
* terminated.</li>
* <li> {@link #APPLICATION_INVALID_STARTUP_ARGUMENT} - One of the specified
* startup arguments is invalid, for example its type is not permitted.</li>
* </ul>

```

```

* @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
*/

```

```

public class ApplicationException extends Exception {
    private static final long serialVersionUID = -7173190453622508207L;
    private final int errorCode;

```

```

/**

```

```

    * The application couldn't be launched because it is locked.

```

```

    */

```

```

    public static final int APPLICATION_LOCKED = 0x01;

```

```

/**

```

```

    * The application is not in launchable state, it's

```

```

    * {@link ApplicationDescriptor#APPLICATION_LAUNCHABLE} attribute is false.

```

```

    */

```

```

    public static final int APPLICATION_NOT_LAUNCHABLE = 0x02;

```

```

/**

```

```

    * An exception was thrown by the application or the corresponding container

```

```

    * during launch. The exception is available from {@code getCause()}.

```

```

    */

```

```

    public static final int APPLICATION_INTERNAL_ERROR = 0x03;

```

```

/**

```

```

    * The application schedule could not be created due to some internal error

```

```

    * (for example, the schedule information couldn't be saved due to some

```

```

    * storage error).

```

```

*/
public static final int APPLICATION_SCHEDULING_FAILED = 0x04;

/**
 * The application scheduling failed because the specified identifier is
 * already in use.
 */
public static final int APPLICATION_DUPLICATE_SCHEDULE_ID = 0x05;

/**
 * The exit value is not available for an application instance because the
 * instance has not terminated.
 *
 * @since 1.1
 */
public static final int APPLICATION_EXITVALUE_NOT_AVAILABLE = 0x06;

/**
 * One of the specified startup arguments is invalid, for example its type
 * is not permitted.
 *
 * @since 1.1
 */
public static final int APPLICATION_INVALID_STARTUP_ARGUMENT = 0x07;

/**
 * Creates an {@code ApplicationException} with the specified error code.
 *
 * @param errorCode The code of the error
 */
public ApplicationException(int errorCode) {
    super();
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.
 *
 * @param errorCode The code of the error
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, Throwable cause) {
    super(cause);
    this.errorCode = errorCode;
}

/**
 * Creates an {@code ApplicationException} with the specified error code.

```

```

*
* @param errorCode The code of the error
* @param message The associated message
*/
public ApplicationException(int errorCode, String message) {
    super(message);
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.
 *
 * @param errorCode The code of the error
 * @param message The associated message.
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, String message, Throwable cause) {
    super(message, cause);
    this.errorCode = errorCode;
}

/**
 * Returns the cause of this exception or {@code null} if no cause was set.
 *
 * @return The cause of this exception or {@code null} if no cause was set.
 */
public Throwable getCause() {
    return super.getCause();
}

/**
 * Returns the error code associated with this exception.
 *
 * @return The error code of this exception.
 */
public int getErrorCode() {
    return errorCode;
}
}

/**
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 *

```

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\* limitations under the License.  
\*/

```
package org.osgi.service.application;
```

```
import java.lang.reflect.InvocationTargetException;  
import java.lang.reflect.Method;  
import java.security.AccessController;  
import java.security.PrivilegedAction;  
import java.security.PrivilegedExceptionAction;  
import org.osgi.framework.Constants;
```

```
/**
```

```
* ApplicationHandle is an OSGi service interface which represents an instance  
* of an application. It provides the functionality to query and manipulate the  
* lifecycle state of the represented application instance. It defines constants  
* for the lifecycle states.
```

```
*
```

```
* @author $Id: 4a9c1d6258e03ce4eb1a26748bccf83661ad8244 $
```

```
*/
```

```
public abstract class ApplicationHandle {
```

```
/*
```

```
* NOTE: An implementor may also choose to replace this class in their  
* distribution with a class that directly interfaces with the  
* org.osgi.service.application implementation. This replacement class MUST  
* NOT alter the public/protected signature of this class.
```

```
*/
```

```
/**
```

```
* The property key for the unique identifier (PID) of the application  
* instance.
```

```
*/
```

```
public static final String APPLICATION_PID = Constants.SERVICE_PID;
```

```
/**
```

```
* The property key for the pid of the corresponding application descriptor.
```

```
*/
```

```
public final static String APPLICATION_DESCRIPTOR = "application.descriptor";
```

```
/**
```

```
* The property key for the state of this application instance.
```

```
*/
```

```
public final static String APPLICATION_STATE = "application.state";
```

```

/**
 * The property key for the supports exit value property of this application
 * instance.
 *
 * @since 1.1
 */
public final static String APPLICATION_SUPPORTS_EXITVALUE = "application.supports.exitvalue";

/**
 * The application instance is running. This is the initial state of a newly
 * created application instance.
 */
public final static String RUNNING = "RUNNING";

/**
 * The application instance is being stopped. This is the state of the
 * application instance during the execution of the {@code destroy()}
 * method.
 */
public final static String STOPPING = "STOPPING";

private final String instanceId;

private final ApplicationDescriptor descriptor;

/**
 * Application instance identifier is specified by the container when the
 * instance is created. The instance identifier must remain static for the
 * lifetime of the instance, it must remain the same even across framework
 * restarts for the same application instance. This value must be the same
 * as the {@code service.pid} service property of this application handle.
 * <p>
 * The instance identifier should follow the following scheme:
 * &lt;i>application descriptor PID</i>.&lt;i>index</i>; where
 * &lt;i>application descriptor PID</i> is the PID of the corresponding
 * {@code ApplicationDescriptor} and &lt;i>index</i> is a unique
 * integer index assigned by the application container. Even after
 * destroying the application index the same index value should not be
 * reused in a reasonably long timeframe.
 *
 * @param instanceId the instance identifier of the represented application
 * instance. It must not be null.
 *
 * @param descriptor the {@code ApplicationDescriptor} of the represented
 * application instance. It must not be null.
 *
 * @throws NullPointerException if any of the arguments is null.
 */

```

```

protected ApplicationHandle(String instanceId, ApplicationDescriptor descriptor) {
    if ((null == instanceId) || (null == descriptor)) {
        throw new NullPointerException("Parameters must not be null!");
    }

    this.instanceId = instanceId;
    this.descriptor = descriptor;

    try {
        delegate = new Delegate();
        delegate.setApplicationHandle(this, descriptor.delegate);
    } catch (Exception e) {
        // Too bad ...
        e.printStackTrace();
        System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
    }
}

/**
 * Retrieves the {@code ApplicationDescriptor} to which this
 * {@code ApplicationHandle} belongs.
 *
 * @return The corresponding {@code ApplicationDescriptor}
 */
public final ApplicationDescriptor getApplicationDescriptor() {
    return descriptor;
}

/**
 * Get the state of the application instance.
 *
 * @return the state of the application.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
public abstract String getState();

/**
 * Returns the exit value for the application instance. The timeout
 * specifies how the method behaves when the application has not yet
 * terminated. A negative, zero or positive value may be used.
 * <ul>
 * <li>negative - The method does not wait for termination. If the
 * application has not terminated then an {@code ApplicationException} is
 * thrown.</li>
 *
 * <li>zero - The method waits until the application terminates.</li>
 *
 * </ul>
 */

```

```

* <li>positive - The method waits until the application terminates or the
* timeout expires. If the timeout expires and the application has not
* terminated then an { @code ApplicationException } is thrown.</li>
* </ul>
* <p>
* The default implementation throws an
* { @code UnsupportedOperationException }. The application model should
* override this method if exit values are supported.
* </p>
*
* @param timeout The maximum time in milliseconds to wait for the
*     application to timeout.
* @return The exit value for the application instance. The value is
*     application specific.
* @throws UnsupportedOperationException If the application model does not
*     support exit values.
* @throws InterruptedException If the thread is interrupted while waiting
*     for the timeout.
* @throws ApplicationException If the application has not terminated. The
*     error code will be
*     { @link ApplicationException#APPLICATION_EXITVALUE_NOT_AVAILABLE}.
*
* @since 1.1
*/
public Object getExitValue(long timeout) throws ApplicationException, InterruptedException {
    throw new UnsupportedOperationException();
}

/**
* Returns the unique identifier of this instance. This value is also
* available as a service property of this application handle's service.pid.
*
* @return the unique identifier of the instance
*/
public final String getInstanceId() {
    return instanceId;
}

/**
* The application instance's lifecycle state can be influenced by this
* method. It lets the application instance perform operations to stop the
* application safely, e.g. saving its state to a permanent storage.
* <p>
* The method must check if the lifecycle transition is valid; a STOPPING
* application cannot be stopped. If it is invalid then the method must
* exit. Otherwise the lifecycle state of the application instance must be
* set to STOPPING. Then the destroySpecific() method must be called to
* perform any application model specific steps for safe stopping of the

```

```

* represented application instance.
* <p>
* At the end the { @code ApplicationHandle } must be unregistered. This
* method should free all the resources related to this
* { @code ApplicationHandle }.
* <p>
* When this method is completed the application instance has already made
* its operations for safe stopping, the ApplicationHandle has been
* unregistered and its related resources has been freed. Further calls on
* this application should not be made because they may have unexpected
* results.
*
* @throws SecurityException if the caller doesn't have "lifecycle"
*     { @code ApplicationAdminPermission } for the corresponding
*     application.
*
* @throws IllegalStateException if the application handle is unregistered
*/
public final void destroy() {
    try {
        delegate.destroy();
    } catch (SecurityException se) {
        descriptor.isLaunchableSpecific(); /*
            * check whether the bundle was
            * uninstalled
            */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    destroySpecific();
}

/**
 * Called by the destroy() method to perform application model specific
 * steps to stop and destroy an application instance safely.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
protected abstract void destroySpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationHandle and delegate method calls
 * to an instance of the class.
 */
static class Delegate {

```



```

static String cName;
static Class implementation;
static Method setApplicationHandle;
static Method destroy;

static {
    AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            cName = System.getProperty("org.osgi.vendor.application.ApplicationHandle");
            if (cName == null) {
                throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationHandle property must be set");
            }

            try {
                implementation = Class.forName(cName);
            } catch (ClassNotFoundException e) {
                throw new NoClassDefFoundError(e.toString());
            }

            try {
                setApplicationHandle = implementation.getMethod("setApplicationHandle", new Class[] { ApplicationHandle.class,
Object.class });
                destroy = implementation.getMethod("destroy", new Class[] { });
            } catch (NoSuchMethodException e) {
                throw new NoSuchMethodError(e.toString());
            }

            return null;
        }
    });
}

Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationHandle(ApplicationHandle d, ApplicationDescriptor.Delegate descriptor) {
    try {
        try {
            setApplicationHandle.invoke(target, new Object[] { d, descriptor.target });
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    }
}

```

```

    }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void destroy() {
    try {
        try {
            destroy.invoke(target, new Object[] { });
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
}
}
}
/*
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 * limitations under the License.
 */

package org.osgi.service.application;

import java.util.Map;

/**

```

- \* It is allowed to schedule an application based on a specific event.
- \* ScheduledApplication service keeps the schedule information. When the
- \* specified event is fired a new instance must be launched. Note that launching
- \* operation may fail because e.g. the application is locked.
- \* <p>
- \* Each { @code ScheduledApplication } instance has an identifier which is unique
- \* within the scope of the application being scheduled.
- \* <p>
- \* { @code ScheduledApplication } instances are registered as services. The
- \* { @link #APPLICATION\_PID } service property contains the PID of the application
- \* being scheduled, the { @link #SCHEDULE\_ID } service property contains the
- \* schedule identifier.
- \*
- \* @author \$Id: 69c9a4995399ff1619ec236dcb9ae2553a12d1ae \$

```

public interface ScheduledApplication {

    /**
     * The property key for the identifier of the application being scheduled.
     */
    public static final String APPLICATION_PID = ApplicationDescriptor.APPLICATION_PID;

    /**
     * The property key for the schedule identifier. The identifier is unique
     * within the scope of the application being scheduled.
     */
    public static final String SCHEDULE_ID = "schedule.id";

    /**
     * The key for the startup argument used to pass the event object that
     * triggered the schedule to launch the application instance. The event is
     * passed in a { @link java.security.GuardedObject } protected by the
     * corresponding { @link org.osgi.service.event.TopicPermission }.
     */
    public static final String TRIGGERING_EVENT = "org.osgi.triggeringevent";

    /**
     * The topic name for the virtual timer topic. Time based schedules should
     * be created using this topic.
     */
    public static final String TIMER_TOPIC = "org/osgi/application/timer";

    /**
     * The name of the <i>year</i> attribute of a virtual timer event. The value
     * is defined by { @link java.util.Calendar#YEAR }.
     */
    public static final String YEAR = "year";

```

```

/**
 * The name of the <i>month</i> attribute of a virtual timer event. The
 * value is defined by { @link java.util.Calendar#MONTH}.
 */
public static final String MONTH = "month";

/**
 * The name of the <i>day of month</i> attribute of a virtual timer event.
 * The value is defined by { @link java.util.Calendar#DAY_OF_MONTH}.
 */
public static final String DAY_OF_MONTH = "day_of_month";

/**
 * The name of the <i>day of week</i> attribute of a virtual timer event.
 * The value is defined by { @link java.util.Calendar#DAY_OF_WEEK}.
 */
public static final String DAY_OF_WEEK = "day_of_week";

/**
 * The name of the <i>hour of day</i> attribute of a virtual timer event.
 * The value is defined by { @link java.util.Calendar#HOUR_OF_DAY}.
 */
public static final String HOUR_OF_DAY = "hour_of_day";

/**
 * The name of the <i>minute</i> attribute of a virtual timer event. The
 * value is defined by { @link java.util.Calendar#MINUTE}.
 */
public static final String MINUTE = "minute";

/**
 * Returns the identifier of this schedule. The identifier is unique within
 * the scope of the application that the schedule is related to.
 *
 * @return the identifier of this schedule
 */
public String getScheduleId();

/**
 * Queries the topic of the triggering event. The topic may contain a
 * trailing asterisk as wildcard.
 *
 * @return the topic of the triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */

```

```

public String getTopic();

/**
 * Queries the event filter for the triggering event.
 *
 * @return the event filter for triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public String getEventFilter();

/**
 * Queries if the schedule is recurring.
 *
 * @return true if the schedule is recurring, otherwise returns false
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public boolean isRecurring();

/**
 * Retrieves the ApplicationDescriptor which represents the application and
 * necessary for launching.
 *
 * @return the application descriptor that represents the scheduled
 *     application
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public ApplicationDescriptor getApplicationDescriptor();

/**
 * Queries the startup arguments specified when the application was
 * scheduled. The method returns a copy of the arguments, it is not possible
 * to modify the arguments after scheduling.
 *
 * @return the startup arguments of the scheduled application. It may be
 *     null if null argument was specified.
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public Map getArguments();

/**

```

```

* Cancels this schedule of the application.
*
* @throws SecurityException if the caller doesn't have "schedule"
*     ApplicationAdminPermission for the scheduled application.
* @throws IllegalStateException if the scheduled application service is
*     unregistered
*/
public void remove();
}
/*
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* limitations under the License.
*/

package org.osgi.service.cm;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Filter;

/**
* Indicates a bundle's authority to configure bundles or be updated by
* Configuration Admin.
*
* @ThreadSafe

```

```

* @author $Id: 8d063b34f0b7e467b8bf7ecd8b8e6d42384fdcb7 $
* @since 1.2
*/

public final class ConfigurationPermission extends BasicPermission {
    static final long    serialVersionUID = 5716868734811965383L;
    /**
     * Provides permission to create new configurations for other bundles as
     * well as manipulate them. The action string {@value #CONFIGURE}.
     */
    public final static String CONFIGURE = "configure";

    /**
     * The permission to be updated, that is, act as a Managed Service or
     * Managed Service Factory. The action string {@value #TARGET}.
     *
     * @since 1.4
     */
    public final static String TARGET = "target";

    private final static int ACTION_CONFIGURE = 0x00000001;
    private final static int ACTION_TARGET = 0x00000002;
    private final static int ACTION_ALL = ACTION_CONFIGURE | ACTION_TARGET;
    final static int ACTION_NONE = 0;

    /**
     * The actions mask.
     */
    transient int    action_mask;

    /**
     * The actions in canonical form.
     *
     * @serial
     */
    private volatile String actions = null;

    /**
     * Parsed name if it includes wildcards: "*"
     */
    private transient List<String> substrings;

    /**
     * Create a new ConfigurationPermission.
     *
     * @param name Name of the permission. Wildcards ({@code '*'}) are allowed
     *           in the name. During {@link #implies(Permission)}, the name is
     *           matched to the requested permission using the substring matching

```

```

* rules used by {@link Filter}s.
* @param actions Comma separated list of {@link #CONFIGURE},
* {@link #TARGET} (case insensitive).
*/

public ConfigurationPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by ConfigurationPermissionCollection.
 *
 * @param name location string
 * @param mask action mask
 */
ConfigurationPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 *
 * @param mask action mask
 */
private void setTransients(int mask) {
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;
    substrings = parseSubstring(getName());
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;

    int mask = ACTION_NONE;

    if (actions == null) {
        return mask;
    }

```



```

char[] a = actions.toCharArray();

int i = a.length - 1;
if (i < 0)
    return mask;

while (i != -1) {
    char c;

    // skip whitespace
    while ((i != -1) && ((c = a[i]) == ' ' || c == '\r' || c == '\n' || c == '\f' || c == '\t'))
        i--;

    // check for the known strings
    int matchlen;

    if (i >= 5 && (a[i - 5] == 't' || a[i - 5] == 'T')
        && (a[i - 4] == 'a' || a[i - 4] == 'A')
        && (a[i - 3] == 'r' || a[i - 3] == 'R')
        && (a[i - 2] == 'g' || a[i - 2] == 'G')
        && (a[i - 1] == 'e' || a[i - 1] == 'E')
        && (a[i] == 't' || a[i] == 'T')) {
        matchlen = 6;
        mask |= ACTION_TARGET;

    } else
    if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
        && (a[i - 7] == 'o' || a[i - 7] == 'O')
        && (a[i - 6] == 'n' || a[i - 6] == 'N')
        && (a[i - 5] == 'f' || a[i - 5] == 'F')
        && (a[i - 4] == 'i' || a[i - 4] == 'I')
        && (a[i - 3] == 'g' || a[i - 3] == 'G')
        && (a[i - 2] == 'u' || a[i - 2] == 'U')
        && (a[i - 1] == 'r' || a[i - 1] == 'R')
        && (a[i] == 'e' || a[i] == 'E')) {
        matchlen = 9;
        mask |= ACTION_CONFIGURE;

    } else {
        // parse error
        throw new IllegalArgumentException("invalid actions: " + actions);
    }

    // make sure we didn't just match the tail of a word
    // like "ackbarftarget". Also, skip to the comma.
    seencomma = false;
    while (i >= matchlen && !seencomma) {
        switch (a[i - matchlen]) {

```

```

    case ',':
        seencomma = true;
        /* FALLTHROUGH */
    case ' ':
    case '\r':
    case '\n':
    case '\f':
    case '\t':
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
    i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;
}

if (seencomma) {
    throw new IllegalArgumentException("invalid actions: " + actions);
}

return mask;
}

/**
 * Parse the name for wildcard processing.
 *
 * @param name The name of the permission.
 * @return { @code null } is the name has no wildcards or a
 *         { @code List<String> } where element is a substring to match or
 *         null for { @code '*'}.
 */
private static List<String> parseSubstring(String name) {
    if (name.indexOf('*') < 0) {
        return null;
    }
    char[] chars = name.toCharArray();
    StringBuffer sb = new StringBuffer(chars.length);

    List<String> sub = new ArrayList<String>(10);

    for (int pos = 0; pos < chars.length; pos++) {
        char c = chars[pos];

        switch (c) {
            case '*': {

```

```

    if (sb.length() > 0) {
        sub.add(sb.toString());
    }
    sb.setLength(0);
    sub.add(null);
    break;
}

case '\\': {
    pos++;
    if (pos < chars.length) {
        c = chars[pos];
    }
    /* fall through into default */
}

default : {
    sb.append(c);
    break;
}
}
}
if (sb.length() > 0) {
    sub.add(sb.toString());
}

int size = sub.size();

if (size == 0) {
    return null;
}

if (size == 1) {
    if (sub.get(0) != null) {
        return null;
    }
}
return sub;
}

/**
 * Determines if a {@code ConfigurationPermission} object "implies" the
 * specified permission.
 *
 * @param p The target permission to check.
 * @return {@code true} if the specified permission is implied by this
 *         object; {@code false} otherwise.
 */

```

```

public boolean implies(Permission p) {
    if (!(p instanceof ConfigurationPermission)) {
        return false;
    }
    ConfigurationPermission requested = (ConfigurationPermission) p;
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested ConfigurationPermission which has already
 *     be validated as a proper argument.
 * @param effective The effective actions with which to start.
 * @return { @code true} if the specified permission is implied by this
 *     object; { @code false} otherwise.
 */
boolean implies0(ConfigurationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    String requestedName = requested.getName();
    if (substrings == null) {
        return getName().equals(requestedName);
    }
    for (int i = 0, pos = 0, size = substrings.size(); i < size; i++) {
        String substr = substrings.get(i);

        if (i + 1 < size) /* if this is not that last substr */{
            if (substr == null) /* * */{
                String substr2 = substrings.get(i + 1);

                if (substr2 == null) /* * * */
                    continue; /* ignore first star */
                /* xxx */
                int index = requestedName.indexOf(substr2, pos);
                if (index == -1) {
                    return false;
                }

                pos = index + substr2.length();
                if (i + 2 < size) // if there are more
                    // substrings, increment

```

```

    // over the string we just
    // matched; otherwise need
    // to do the last substr
    // check
    i++;
} else /* xxx */{
    int len = substr.length();
    if (requestedName.regionMatches(pos, substr, 0, len)) {
        pos += len;
    } else {
        return false;
    }
}
} else /* last substr */{
    if (substr == null) /* * */{
        return true;
    }
    /* xxx */
    return requestedName.endsWith(substr);
}
}

return false;
}

/**
 * Determines the equality of two {@code ConfigurationPermission} objects.
 * <p>
 * Two {@code ConfigurationPermission} objects are equal.
 *
 * @param obj The object being compared for equality with this object.
 * @return {@code true} if {@code obj} is equivalent to this
 *         {@code ConfigurationPermission}; {@code false} otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }

    if (!(obj instanceof ConfigurationPermission)) {
        return false;
    }

    ConfigurationPermission cp = (ConfigurationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName());
}

```

```

/**
 * Returns the hash code value for this object.
 *
 * @return Hash code value for this object.
 */

public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * Returns the canonical string representation of the
 * { @code ConfigurationPermission } actions.
 *
 * <p>
 * Always returns present { @code ConfigurationPermission } actions in the
 * following order: { @value #CONFIGURE }, { @value #TARGET }
 *
 * @return Canonical string representation of the
 *         { @code ConfigurationPermission } actions.
 */
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;
        if ((mask & ACTION_CONFIGURE) == ACTION_CONFIGURE) {
            sb.append(CONFIGURE);
            comma = true;
        }

        if ((mask & ACTION_TARGET) == ACTION_TARGET) {
            if (comma)
                sb.append(',');
            sb.append(TARGET);
        }

        actions = result = sb.toString();
    }

    return result;
}

/**

```

```

* Returns a new { @code PermissionCollection } object suitable for storing
* { @code ConfigurationPermission }s.
*
* @return A new { @code PermissionCollection } object.
*/
public PermissionCollection newPermissionCollection() {
    return new ConfigurationPermissionCollection();
}

/**
* WriteObject is called to save the state of this permission object to a
* stream. The actions are serialized, and the superclass takes care of the
* name.
*/
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
* readObject is called to restore the state of this permission from a
* stream.
*/
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the data, then initialize the transients
    s.defaultReadObject();
    setTransients(parseActions(actions));
}
}

/**
* Stores a set of { @code ConfigurationPermission } permissions.
*
* @see java.security.Permission
* @see java.security.Permissions
* @see java.security.PermissionCollection
*/
final class ConfigurationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -6917638867081695839L;
}

/**
* Collection of permissions.
*
* @serial
* @GuardedBy this
*/

```

```

private Map<String, ConfigurationPermission> permissions;

/**
 * Boolean saying if "*" is in the collection.
 *
 * @serial
 * @GuardedBy this
 */
private boolean    all_allowed;

/**
 * Creates an empty { @code ConfigurationPermissionCollection } object.
 *
 */
public ConfigurationPermissionCollection() {
    permissions = new HashMap<String, ConfigurationPermission>();
    all_allowed = false;
}

/**
 * Adds the specified permission to the
 * { @code ConfigurationPermissionCollection }. The key for the hash is the
 * interface name of the service.
 *
 * @param permission The { @code Permission } object to add.
 *
 * @exception IllegalArgumentException If the permission is not an
 *         { @code ConfigurationPermission }.
 *
 * @exception SecurityException If this ConfigurationPermissionCollection
 *         object has been marked read-only.
 */

public void add(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }

    if (isReadOnly())
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");

    final ConfigurationPermission cp = (ConfigurationPermission) permission;
    final String name = cp.getName();
    synchronized (this) {
        Map<String, ConfigurationPermission> pc = permissions;
        final ConfigurationPermission existing = pc.get(name);
        if (existing != null) {
            final int oldMask = existing.action_mask;

```



```

    final int newMask = cp.action_mask;
    if (oldMask != newMask) {
        pc.put(name, new ConfigurationPermission(name, oldMask | newMask));
    }
    } else {
        pc.put(name, cp);
    }
}

if (!all_allowed) {
    if (name.equals("*")) {
        all_allowed = true;
    }
}
}
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in { @code permission}.
 *
 * @param permission The Permission object to compare with this
 *    { @code ConfigurationPermission} object.
 * @return { @code true} if { @code permission} is a proper subset of a
 *    permission in the set; { @code false} otherwise.
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        return false;
    }
    final ConfigurationPermission requested = (ConfigurationPermission) permission;
    int effective = ConfigurationPermission.ACTION_NONE;

    Collection<ConfigurationPermission> perms;
    synchronized (this) {
        Map<String, ConfigurationPermission> pc = permissions;
        /* short circuit if the "*" Permission was added */
        if (all_allowed) {
            ConfigurationPermission cp = pc.get("*");
            if (cp != null) {
                effective |= cp.action_mask;
                final int desired = requested.action_mask;
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        perms = pc.values();
    }
}

```

```

/* iterate one by one over permissions */
for (ConfigurationPermission perm : perms) {
    if (perm.implies0(requested, effective)) {
        return true;
    }
}
return false;
}

/**
 * Returns an enumeration of all {@code ConfigurationPermission} objects in
 * the container.
 *
 * @return Enumeration of all {@code ConfigurationPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = { new ObjectStreamField("hasElement",
Boolean.TYPE), new ObjectStreamField("permissions", HashMap.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE) };

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("hasElement", false);
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
{
    ObjectInputStream.GetField gfields = in.readFields();
    boolean hasElement = gfields.get("hasElement", false);
    if (hasElement) { // old format
        permissions = new HashMap<String, ConfigurationPermission>();
        permissions.put("?", new ConfigurationPermission("?", ConfigurationPermission.CONFIGURE));
        all_allowed = true;
    } else {
        permissions = (HashMap<String, ConfigurationPermission>) gfields.get("permissions", new HashMap<String,
ConfigurationPermission>());
        all_allowed = gfields.get("all_allowed", false);
    }
}
}
}

```

```
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 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

```
package org.osgi.service.component.annotations;
```

```
/**
 * Configuration Policy for the { @link Component } annotation.
 *
 * <p>
 * Controls whether component configurations must be satisfied depending on the
 * presence of a corresponding Configuration object in the OSGi Configuration
 * Admin service. A corresponding configuration is a Configuration object where
 * the PID is the name of the component.
 *
 * @author $Id: 2bb2640aedd7d09de30e9ec3f471f6a8ccccf3c $
 * @since 1.1
 */
```

```
public enum ConfigurationPolicy {
```

```
/**
 * Use the corresponding Configuration object if present but allow the
 * component to be satisfied even if the corresponding Configuration object
 * is not present.
 */
```

```
OPTIONAL("optional"),
```

```
/**
 * There must be a corresponding Configuration object for the component
 * configuration to become satisfied.
 */
```

```
REQUIRE("require"),
```

```
/**
 * Always allow the component configuration to be satisfied and do not use
 * the corresponding Configuration object even if it is present.
 */
```

```

IGNORE("ignore");

private final String value;

ConfigurationPolicy(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.component.annotations;

/**
 * Policy for the { @link Reference } annotation.
 *
 * @author $Id: 835125670fa25ca1205beacabb2d4cfa5896fd4 $
 */
public enum ReferencePolicy {
    /**
     * The static policy is the most simple policy and is the default policy. A
     * component instance never sees any of the dynamics. Component
     * configurations are deactivated before any bound service for a reference
     * having a static policy becomes unavailable. If a target service is
     * available to replace the bound service which became unavailable, the
     * component configuration must be reactivated and bound to the replacement
     * service.
     */
    STATIC("static"),

```

```

/**
 * The dynamic policy is slightly more complex since the component
 * implementation must properly handle changes in the set of bound services.
 * With the dynamic policy, SCR can change the set of bound services without
 * deactivating a component configuration. If the component uses the event
 * strategy to access services, then the component instance will be notified
 * of changes in the set of bound services by calls to the bind and unbind
 * methods.
 */
DYNAMIC("dynamic");

private final String value;

ReferencePolicy(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}
}
/**
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.component.annotations;

/**
 * Policy option for the { @link Reference } annotation.
 *
 * @author $Id: 1023cb41ab8539820d1658af1eb7d08944932353 $
 * @since 1.2
 */
public enum ReferencePolicyOption {
/**

```

```

* The reluctant policy option is the default policy option for both
* {@link ReferencePolicy#STATIC static} and {@link ReferencePolicy#DYNAMIC
* dynamic} reference policies. When a new target service for a reference
* becomes available, references having the reluctant policy option for the
* static policy or the dynamic policy with a unary cardinality will ignore
* the new target service. References having the dynamic policy with a
* multiple cardinality will bind the new target service.
*/
RELUCTANT("reluctant"),

/**
* The greedy policy option is a valid policy option for both
* {@link ReferencePolicy#STATIC static} and {@link ReferencePolicy#DYNAMIC
* dynamic} reference policies. When a new target service for a reference
* becomes available, references having the greedy policy option will bind
* the new target service.
*/
GREEDY("greedy");

private final String value;

ReferencePolicyOption(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}
}
/*
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package org.osgi.service.coordinator;

```

```

import java.io.IOException;
import java.io.NotSerializableException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.AccessController;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Bundle;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * A bundle's authority to create or use a {@link Coordination}.
 *
 * <p>
 * { @code CoordinationPermission } has three actions: { @code initiate },
 * { @code participate } and { @code admin }.
 *
 * @ThreadSafe
 * @author $Id: 13aa34eaea5f268a315be475fa8bb7b2718415bd $
 */
public final class CoordinationPermission extends BasicPermission {

    private static final long serialVersionUID = 1L;

    /**
     * The action string { @code initiate }.
     */
    public final static String INITIATE = "initiate";

    /**
     * The action string { @code participate }.
     */
    public final static String PARTICIPATE = "participate";

    /**
     * The action string { @code admin }.
     */

```

```

public final static String    ADMIN    = "admin";

private final static int     ACTION_INITIATE = 0x00000001;
private final static int     ACTION_PARTICIPATE = 0x00000002;
private final static int     ACTION_ADMIN = 0x00000004;
private final static int     ACTION_ALL = ACTION_INITIATE | ACTION_PARTICIPATE | ACTION_ADMIN;
final static int             ACTION_NONE = 0;

/**
 * The actions mask.
 */
transient int                action_mask;

/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String      actions = null;

/**
 * The bundle used by this CoordinationPermission.
 */
transient final Bundle       bundle;

/**
 * If this CoordinationPermission was constructed with a filter, this holds
 * a Filter matching object used to evaluate the filter in implies.
 */
transient Filter             filter;

/**
 * This map holds the properties of the permission, used to match a filter
 * in implies. This is not initialized until necessary, and then cached in
 * this object.
 */
private transient volatile Map<String, Object> properties;

/**
 * Creates a new granted { @code CoordinationPermission } object.
 *
 * This constructor must only be used to create a permission that is going
 * to be checked.
 * <p>
 * Examples:
 *
 * <pre>
 * (coordination.name=com.acme.*)

```



```

* (&amp;(signer=\\*,o=ACME,c=US)(coordination.name=com.acme.*))
* (signer=\\*,o=ACME,c=US)
* </pre>
*
* <p>
* When a signer key is used within the filter expression the signer value
* must escape the special filter chars ('*', '(' , ')').
* <p>
* The name is specified as a filter expression. The filter gives access to
* the following attributes:
* <ul>
* <li>signer - A Distinguished Name chain used to sign the exporting
* bundle. Wildcards in a DN are not matched according to the filter string
* rules, but according to the rules defined for a DN chain.</li>
* <li>location - The location of the exporting bundle.</li>
* <li>id - The bundle ID of the exporting bundle.</li>
* <li>name - The symbolic name of the exporting bundle.</li>
* <li>coordination.name - The name of the requested coordination.</li>
* </ul>
* Filter attribute names are processed in a case sensitive manner.
*
* @param filter A filter expression. Filter attribute names are processed
* in a case sensitive manner. A special value of { @code "*" } can be
* used to match all coordinations.
* @param actions { @code admin }, { @code initiate } or { @code participate }
* (canonical order).
* @throws IllegalArgumentException If the filter has an invalid syntax.
*/
public CoordinationPermission(String filter, String actions) {
    this(parseFilter(filter), parseActions(actions));
}

/**
* Creates a new requested { @code CoordinationPermission } object to be used
* by the code that must perform { @code checkPermission }.
* { @code CoordinationPermission } objects created with this constructor
* cannot be added to an { @code CoordinationPermission } permission
* collection.
*
* @param coordinationName The name of the requested Coordination.
* @param coordinationBundle The bundle which
* { @link Coordination#getBundle() created } the requested
* Coordination.
* @param actions { @code admin }, { @code initiate } or { @code participate }
* (canonical order).
*/
public CoordinationPermission(String coordinationName, Bundle coordinationBundle, String actions) {
    super(coordinationName);

```

```

setTransients(null, parseActions(actions));
this.bundle = coordinationBundle;
if (coordinationName == null) {
    throw new NullPointerException("coordinationName must not be null");
}
if (coordinationBundle == null) {
    throw new NullPointerException("coordinationBundle must not be null");
}
}

/**
 * Package private constructor used by CoordinationPermissionCollection.
 *
 * @param filter name filter
 * @param mask action mask
 */
CoordinationPermission(Filter filter, int mask) {
    super((filter == null) ? "*" : filter.toString());
    setTransients(filter, mask);
    this.bundle = null;
}

/**
 * Called by constructors and when deserialized.
 *
 * @param filter Permission's filter or { @code null } for wildcard.
 * @param mask action mask
 */
private void setTransients(Filter filter, int mask) {
    this.filter = filter;
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    this.action_mask = mask;
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;

    int mask = ACTION_NONE;

    if (actions == null) {

```

```

return mask;
}

char[] a = actions.toCharArray();

int i = a.length - 1;
if (i < 0)
return mask;

while (i != -1) {
char c;

// skip whitespace
while ((i != -1) && ((c = a[i]) == ' ' || c == '\r' || c == '\n' || c == '\f' || c == '\t'))
i--;

// check for the known strings
int matchlen;

if (i >= 4 && (a[i - 4] == 'a' || a[i - 4] == 'A')
&& (a[i - 3] == 'd' || a[i - 3] == 'D')
&& (a[i - 2] == 'm' || a[i - 2] == 'M')
&& (a[i - 1] == 'i' || a[i - 1] == 'I')
&& (a[i] == 'n' || a[i] == 'N')) {
matchlen = 5;
mask |= ACTION_ADMIN;

}
else
if (i >= 7 && (a[i - 7] == 'i' || a[i - 7] == 'I')
&& (a[i - 6] == 'n' || a[i - 6] == 'N')
&& (a[i - 5] == 'i' || a[i - 5] == 'I')
&& (a[i - 4] == 't' || a[i - 4] == 'T')
&& (a[i - 3] == 'i' || a[i - 3] == 'I')
&& (a[i - 2] == 'a' || a[i - 2] == 'A')
&& (a[i - 1] == 't' || a[i - 1] == 'T')
&& (a[i] == 'e' || a[i] == 'E')) {
matchlen = 8;
mask |= ACTION_INITIATE;

}
else {
if (i >= 10 && (a[i - 10] == 'p' || a[i - 10] == 'P')
&& (a[i - 9] == 'a' || a[i - 9] == 'A')
&& (a[i - 8] == 'r' || a[i - 8] == 'R')
&& (a[i - 7] == 't' || a[i - 7] == 'T')
&& (a[i - 6] == 'i' || a[i - 6] == 'I')
&& (a[i - 5] == 'c' || a[i - 5] == 'C'))

```

```

    && (a[i - 4] == 'i' || a[i - 4] == 'I')
    && (a[i - 3] == 'p' || a[i - 3] == 'P')
    && (a[i - 2] == 'a' || a[i - 2] == 'A')
    && (a[i - 1] == 't' || a[i - 1] == 'T')
    && (a[i] == 'e' || a[i] == 'E')) {
    matchlen = 11;
    mask |= ACTION_PARTICIPATE;

    } else {
    // parse error
    throw new IllegalArgumentException("invalid permission: " + actions);
    }
}

// make sure we didn't just match the tail of a word
// like "ackbarfadmin". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',':
        seencomma = true;
        /* FALLTHROUGH */
    case ' ':
    case '\r':
    case '\n':
    case '\f':
    case '\t':
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
    i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;
}

if (seencomma) {
    throw new IllegalArgumentException("invalid permission: " + actions);
}

return mask;
}

/**
 * Parse filter string into a Filter object.
 */

```

```

* @param filterString The filter string to parse.
* @return a Filter for this bundle.
* @throws IllegalArgumentException If the filter syntax is invalid.
*/
private static Filter parseFilter(String filterString) {
    filterString = filterString.trim();
    if (filterString.equals("*")) {
        return null;
    }
    try {
        return FrameworkUtil.createFilter(filterString);
    } catch (InvalidSyntaxException e) {
        IllegalArgumentException iae = new IllegalArgumentException("invalid filter");
        iae.initCause(e);
        throw iae;
    }
}

/**
 * Determines if the specified permission is implied by this object.
 *
 * <p>
 * This method checks that the filter of the target is implied by the
 * coordination name of this object. The list of
 * {@code CoordinationPermission} actions must either match or allow for the
 * list of the target object to imply the target
 * {@code CoordinationPermission} action.
 * <p>
 *
 * @param p The requested permission.
 * @return {@code true} if the specified permission is implied by this
 *         object; {@code false} otherwise.
 */
public boolean implies(Permission p) {
    if (!(p instanceof CoordinationPermission)) {
        return false;
    }
    CoordinationPermission requested = (CoordinationPermission) p;
    if (bundle != null) {
        return false;
    }
    // if requested permission has a filter, then it is an invalid argument
    if (requested.filter != null) {
        return false;
    }
    return implies0(requested, ACTION_NONE);
}

```

```

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested CoordinationPermission which has already
 *     be validated as a proper argument. The requested
 *     CoordinationPermission must not have a filter expression.
 * @param effective The effective actions with which to start.
 * @return { @code true } if the specified permission is implied by this
 *     object; { @code false } otherwise.
 */

```

```

boolean implies0(CoordinationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    /* Get filter */
    Filter f = filter;
    if (f == null) {
        // it's "*"
        return true;
    }
    return f.matches(requested.getProperties());
}

```

```

/**
 * Returns the canonical string representation of the
 * { @code CoordinationPermission } actions.
 *
 * <p>
 * Always returns present { @code CoordinationPermission } actions in the
 * following order: { @code admin }, { @code initiate }, { @code participate }.
 *
 * @return Canonical string representation of the
 *     { @code CoordinationPermission } actions.
 */

```

```

public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;
        if ((mask & ACTION_ADMIN) == ACTION_ADMIN) {
            sb.append(ADMIN);
            comma = true;

```

```

    }

    if ((mask & ACTION_INITIATE) == ACTION_INITIATE) {
        if (comma)
            sb.append(',');
        sb.append(INITIATE);
        comma = true;
    }

    if ((mask & ACTION_PARTICIPATE) == ACTION_PARTICIPATE) {
        if (comma)
            sb.append(',');
        sb.append(PARTICIPATE);
        comma = true;
    }

    actions = result = sb.toString();
}
return result;
}

/**
 * Returns a new {@code PermissionCollection} object suitable for storing
 * {@code CoordinationPermission} objects.
 *
 * @return A new {@code PermissionCollection} object.
 */
public PermissionCollection newPermissionCollection() {
    return new CoordinationPermissionCollection();
}

/**
 * Determines the equality of two {@code CoordinationPermission} objects.
 *
 * This method checks that specified permission has the same name and
 * {@code CoordinationPermission} actions as this
 * {@code CoordinationPermission} object.
 *
 * @param obj The object to test for equality with this
 *             {@code CoordinationPermission} object.
 * @return {@code true} if {@code obj} is a {@code CoordinationPermission},
 *         and has the same name and actions as this
 *         {@code CoordinationPermission} object; {@code false} otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }

```

```

if (!(obj instanceof CoordinationPermission)) {
    return false;
}

CoordinationPermission cp = (CoordinationPermission) obj;

return (action_mask == cp.action_mask) && getName().equals(cp.getName()) && ((bundle == cp.bundle) ||
(bundle != null) && bundle.equals(cp.bundle));
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    if (bundle != null) {
        h = 31 * h + bundle.hashCode();
    }
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    if (bundle != null) {
        throw new NotSerializableException("cannot serialize");
    }
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
}

```



```

setTransients(parseFilter(getName()), parseActions(actions));
}

/**
 * Called by {@link CoordinationPermission#implies(Permission)}. This method
 * is only called on a requested permission which cannot have a filter set.
 *
 * @return a map of properties for this permission.
 */
private Map<String, Object> getProperties() {
    Map<String, Object> result = properties;
    if (result != null) {
        return result;
    }
    final Map<String, Object> map = new HashMap<String, Object>(5);
    map.put("coordination.name", getName());
    if (bundle != null) {
        AccessController.doPrivileged(new PrivilegedAction<Object>() {
            public Object run() {
                map.put("id", new Long(bundle.getId()));
                map.put("location", bundle.getLocation());
                String name = bundle.getSymbolicName();
                if (name != null) {
                    map.put("name", name);
                }
                SignerProperty signer = new SignerProperty(bundle);
                if (signer.isBundleSigned()) {
                    map.put("signer", signer);
                }
                return null;
            }
        });
    }
    return properties = map;
}

/**
 * Package private class used for filter matching on signer key during filter
 * expression evaluation in the permission implies method.
 *
 * @Immutable
 */
final class SignerProperty {
    private final Bundle bundle;
    private final String pattern;
}

```

```

* String constructor used by the filter matching algorithm to construct a
* SignerProperty from the attribute value in a filter expression.
*
* @param pattern Attribute value in the filter expression.
*/
public SignerProperty(String pattern) {
    this.pattern = pattern;
    this.bundle = null;
}

/**
* Used by the permission implies method to build the properties for a
* filter match.
*
* @param bundle The bundle whose signers are to be matched.
*/
SignerProperty(Bundle bundle) {
    this.bundle = bundle;
    this.pattern = null;
}

/**
* Used by the filter matching algorithm. This methods does NOT satisfy the
* normal equals contract. Since the class is only used in filter expression
* evaluations, it only needs to support comparing an instance created with
* a Bundle to an instance created with a pattern string from the filter
* expression.
*
* @param o SignerProperty to compare against.
* @return true if the DN name chain matches the pattern.
*/
public boolean equals(Object o) {
    if (!(o instanceof SignerProperty))
        return false;
    SignerProperty other = (SignerProperty) o;
    Bundle matchBundle = bundle != null ? bundle : other.bundle;
    String matchPattern = bundle != null ? other.pattern : pattern;
    Map<X509Certificate, List<X509Certificate>> signers =
matchBundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    for (List<X509Certificate> signerCerts : signers.values()) {
        List<String> dnChain = new ArrayList<String>(signerCerts.size());
        for (X509Certificate signerCert : signerCerts) {
            dnChain.add(signerCert.getSubjectDN().getName());
        }
        try {
            if (FrameworkUtil.matchDistinguishedNameChain(matchPattern, dnChain)) {
                return true;
            }
        }
    }
}

```

```

    } catch (IllegalArgumentException e) {
        continue; // bad pattern
    }
}
return false;
}

/**
 * Since the equals method does not obey the general equals contract, this
 * method cannot generate hash codes which obey the equals contract.
 */
public int hashCode() {
    return 31;
}

/**
 * Check if the bundle is signed.
 *
 * @return true if constructed with a bundle that is signed.
 */
boolean isBundleSigned() {
    if (bundle == null) {
        return false;
    }
    Map<X509Certificate, List<X509Certificate>> signers =
        bundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    return !signers.isEmpty();
}
}

/**
 * Stores a set of {@code CoordinationPermission} permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */

final class CoordinationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -3350758995234427603L;
    /**
     * Collection of permissions.
     *
     * @serial
     * @GuardedBy this
     */
    private Map<String, CoordinationPermission> permissions;

```

```

/**
 * Boolean saying if "*" is in the collection.
 *
 * @serial
 * @GuardedBy this
 */
private boolean    all_allowed;

/**
 * Create an empty CoordinationPermissions object.
 */
public CoordinationPermissionCollection() {
    permissions = new HashMap<String, CoordinationPermission>();
    all_allowed = false;
}

/**
 * Adds a permission to this permission collection.
 *
 * @param permission The {@code CoordinationPermission} object to add.
 * @throws IllegalArgumentException If the specified permission is not a
 *     {@code CoordinationPermission} instance or was constructed with a
 *     Bundle object.
 * @throws SecurityException If this
 *     {@code CoordinationPermissionCollection} object has been marked
 *     read-only.
 */
public void add(final Permission permission) {
    if (!(permission instanceof CoordinationPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }
    if (isReadOnly()) {
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
    }

    final CoordinationPermission cp = (CoordinationPermission) permission;
    if (cp.bundle != null) {
        throw new IllegalArgumentException("cannot add to collection: " + cp);
    }

    final String name = cp.getName();
    synchronized (this) {
        Map<String, CoordinationPermission> pc = permissions;
        final CoordinationPermission existing = pc.get(name);
        if (existing != null) {
            final int oldMask = existing.action_mask;
            final int newMask = cp.action_mask;
            if (oldMask != newMask) {

```

```

pc.put(name, new CoordinationPermission(existing.filter, oldMask | newMask));

}
} else {
pc.put(name, cp);
}

if (!all_allowed) {
if (name.equals("*")) {
all_allowed = true;
}
}
}
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in { @code permission}.
 *
 * @param permission The Permission object to compare with this
 *    { @code CoordinationPermission} object.
 * @return { @code true} if { @code permission} is a proper subset of a
 *    permission in the set; { @code false} otherwise.
 */
public boolean implies(final Permission permission) {
if (!(permission instanceof CoordinationPermission)) {
return false;
}
final CoordinationPermission requested = (CoordinationPermission) permission;
/* if requested permission has a filter, then it is an invalid argument */
if (requested.filter != null) {
return false;
}

int effective = CoordinationPermission.ACTION_NONE;

Collection<CoordinationPermission> perms;
synchronized (this) {
Map<String, CoordinationPermission> pc = permissions;
/* short circuit if the "*" Permission was added */
if (all_allowed) {
CoordinationPermission cp = pc.get("*");
if (cp != null) {
effective |= cp.action_mask;
final int desired = requested.action_mask;
if ((effective & desired) == desired) {
return true;
}
}
}
}

```

```

    }
    }
    perms = pc.values();
    }
    /* iterate one by one over filteredPermissions */
    for (CoordinationPermission perm : perms) {
        if (perm.implies0(requested, effective)) {
            return true;
        }
    }
    return false;
}

/**
 * Returns an enumeration of all {@code CoordinationPermission} objects in
 * the container.
 *
 * @return Enumeration of all {@code CoordinationPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectOutputStreamField[] serialPersistentFields = {new ObjectOutputStreamField("permissions",
HashMap.class), new ObjectOutputStreamField("all_allowed", Boolean.TYPE)};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
{
    ObjectInputStream.GetField gfields = in.readFields();
    permissions = (HashMap<String, CoordinationPermission>) gfields.get("permissions", null);
    all_allowed = gfields.get("all_allowed", false);
}
}
/*
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```

```

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* limitations under the License.
*/

```

```
package org.osgi.service.deploymentadmin.spi;
```

```

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;
import org.osgi.service.deploymentadmin.DeploymentAdminPermission;

```

```
/**
```

```

* The { @code DeploymentCustomizerPermission } permission gives the right to
* Resource Processors to access a bundle's (residing in a Deployment Package)
* private area. The bundle and the Resource Processor (customizer) have to be
* in the same Deployment Package.

```

```
* <p>
```

```
*
```

```

* The Resource Processor that has this permission is allowed to access the
* bundle's private area by calling the
* { @link DeploymentSession#getDataFile(Bundle) } method during the session (see
* { @link DeploymentSession }). After the session ends the FilePermissions are
* withdrawn. The Resource Processor will have { @code FilePermission } with
* "read", "write" and "delete" actions for the returned { @link java.io.File }
* that represents the the base directory of the persistent storage area and for
* its subdirectories.

```

```
* <p>
```

```
*
```

```
* The actions string is converted to lowercase before processing.
```

```
*/
```

```
public class DeploymentCustomizerPermission extends Permission {
```

```
/**
```

```
*
```

```
*/
```

```
private static final long serialVersionUID = 1L;
```

```
/**
```

```

* Constant String to the "privatearea" action.
*/
public static final String PRIVATEAREA = "privatearea";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;
static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pkg = System.getProperty(delegateProperty);
            if (null == pkg)
                throw new RuntimeException("Property '" + delegateProperty + "' is not set");
            try {
                Class c = Class.forName(pkg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new {@code DeploymentCustomizerPermission} object for the given
 * {@code name} and {@code action}.
 * <p>
 *
 * The name parameter is a filter string. This filter has the same syntax as
 * an OSGi filter but only the "name" attribute is allowed. The value of the
 * attribute is a Bundle Symbolic Name that represents a bundle. The only
 * allowed action is the "privatearea" action. E.g.
 *
 * <pre>
 * Permission perm = new DeploymentCustomizerPermission(
 *     "(name=com.acme.bundle)", "privatearea");
 * </pre>
 *
 * The Resource Processor that has this permission is allowed to access the
 * bundle's private area by calling the
 * {@link DeploymentSession#getDataFile(Bundle)} method. The Resource
 * Processor will have {@code FilePermission} with "read", "write" and
 * "delete" actions for the returned {@link java.io.File} and its
 * subdirectories during the deployment session.
 *
 * @param name Bundle Symbolic Name of the target bundle, must not be
 *     null.
 * @param actions action string (only the "privatearea" or "*" action is

```



```

*    valid; "*" means all the possible actions), must not be
*    { @code null }.
* @throws IllegalArgumentException if the filter is invalid, the list of
*    actions contains unknown operations or one of the parameters is
*    { @code null }
*/
public DeploymentCustomizerPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] { name, actions });
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

/**
 * Checks two DeploymentCustomizerPermission objects for equality. Two
 * permission objects are equal if:
 * <p>
 *
 * <ul>
 * <li>their target filters are equal (semantically and not character by
 * character) and</li>
 * <li>their actions are the same</li>
 * </ul>
 *
 * @param obj the reference object with which to compare.
 * @return true if the two objects are equal.
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) obj;
    return delegate.equals(dcp.delegate);
}

/**

```

```

* Returns hash code for this permission object.
*
* @return Hash code for this permission object.
* @see java.lang.Object#hashCode()
*/
public int hashCode() {
    return delegate.hashCode();
}

/**
* Returns the String representation of the action list.
*
* @return Action list of this permission instance. It is always
*         "privatearea".
* @see java.security.Permission#getActions()
*/
public String getActions() {
    return delegate.getActions();
}

/**
* Checks if this DeploymentCustomizerPermission would imply the parameter
* permission. This permission implies another
* DeploymentCustomizerPermission permission if:
*
* <ul>
* <li>both of them has the "privatearea" action (other actions are not
* allowed) and</li>
* <li>their filters (only name attribute is allowed in the filters) match
* similarly to { @link DeploymentAdminPermission}.</li>
* </ul>
*
* The value of the name attribute means Bundle Symbolic Name and not
* Deployment Package Symbolic Name here!
* <p>
*
* @param permission Permission to check.
* @return true if this DeploymentCustomizerPermission object implies the
*         specified permission.
* @see java.security.Permission#implies(java.security.Permission)
*/
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentCustomizerPermission))
        return false;

    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) permission;

    return delegate.implies(dcp.delegate);
}

```

```

}

/**
 * Returns a new PermissionCollection object for storing
 * DeploymentCustomizerPermission objects.
 *
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}

}

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 * limitations under the License.
 */

package org.osgi.service.deploymentadmin;

import java.io.InputStream;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;

/**
 * DeploymentAdminPermission controls access to the Deployment Admin service.
 * <p>
 *
 * The permission uses a filter string formatted similarly to the
 * { @link org.osgi.framework.Filter}. The filter determines the target of the
 * permission. The { @code DeploymentAdminPermission} uses the { @code name} and

```

\* the { @code signer } filter attributes only. The value of the { @code signer } attribute is matched against the signer chain (represented with its semicolon separated Distinguished Name chain) of the Deployment Package, and the value of the { @code name } attribute is matched against the value of the "DeploymentPackage-Name" manifest header of the Deployment Package. Example:

```
* <ul>
* <li>(signer=cn = Bugs Bunny, o = ACME, c = US)</li>
* <li>(name=org.osgi.ExampleApp)</li>
* </ul>
```

\* Wildcards also can be used:

```
* <p>
*
* <pre>
* (signer=cn=*,o=ACME,c=*)
* </pre>
```

\* "cn" and "c" may have an arbitrary value

```
* <pre>
* (signer=*, o=ACME, c=US)
* </pre>
```

\* Only the value of "o" and "c" are significant

```
* <pre>
* (signer=* ; ou=S & V, o=Tweety Inc., c=US)
* </pre>
```

\* The first element of the certificate chain is not important, only the second (the Distinguished Name of the root certificate)

```
* <pre>
* (signer=- ; *, o=Tweety Inc., c=US)
* </pre>
```

\* The same as the previous but '-' represents zero or more certificates, whereas the asterisk only represents a single certificate

```
* <pre>
* (name=*)
* </pre>
```

\* The name of the Deployment Package doesn't matter

```
* <pre>
* (name=org.osgi.*)
```

```

* </pre>
*
* The name has to begin with "org.osgi."
*
* <p>
* The following actions are allowed:
* <p>
*
* <b>list</b>
* <p>
* A holder of this permission can access the inventory information of the
* deployment packages selected by the <code>&lt;filter&gt;</code> string. The filter selects
* the deployment packages on which the holder of the permission can acquire
* detailed inventory information. See
* { @link DeploymentAdmin#getDeploymentPackage(Bundle)},
* { @link DeploymentAdmin#getDeploymentPackage(String)} and
* { @link DeploymentAdmin#listDeploymentPackages}.
* <p>
*
* <b>install</b>
* <p>
*
* A holder of this permission can install/update deployment packages if the
* deployment package satisfies the <code>&lt;filter&gt;</code> string. See
* { @link DeploymentAdmin#installDeploymentPackage}.
* <p>
*
* <b>uninstall</b>
* <p>
*
* A holder of this permission can uninstall deployment packages if the
* deployment package satisfies the <code>&lt;filter&gt;</code> string. See
* { @link DeploymentPackage#uninstall()}.
* <p>
*
* <b>uninstall_forced</b>
* <p>
*
* A holder of this permission can forcefully uninstall deployment packages if
* the deployment package satisfies the <code>&lt;filter&gt;</code> string. See
* { @link DeploymentPackage#uninstallForced()}.
* <p>
*
* <b>cancel</b>
* <p>
*
* A holder of this permission can cancel an active deployment action. This
* action being canceled could correspond to the install, update or uninstall of

```

```

* a deployment package that satisfies the <code>filter</code> string. See
* { @link DeploymentAdmin#cancel() }
* <p>
*
* <b>metadata</b>
* <p>
*
* A holder of this permission is able to retrieve metadata information about a
* Deployment Package (e.g. is able to ask its manifest headers). See
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String) },
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos() },
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String) },
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String) },
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String) }, { @link
org.osgi.service.deploymentadmin.DeploymentPackage#getResources() }
* <p>
*
* The actions string is converted to lower case before processing.
*/
public final class DeploymentAdminPermission extends Permission {

/**
 *
 */
private static final long serialVersionUID = 1L;

/**
 * Constant String to the "install" action.
 * <p>
 *
 * @see DeploymentAdmin#installDeploymentPackage(InputStream)
 */
public static final String INSTALL = "install";

/**
 * Constant String to the "list" action.
 * <p>
 *
 * @see DeploymentAdmin#listDeploymentPackages()
 * @see DeploymentAdmin#getDeploymentPackage(String)
 * @see DeploymentAdmin#getDeploymentPackage(Bundle)
 */
public static final String LIST = "list";

/**
 * Constant String to the "uninstall" action.
 * <p>
 *

```

```

* @see DeploymentPackage#uninstall()
*/
public static final String UNINSTALL = "uninstall";

/**
 * Constant String to the "uninstall_forced" action.
 * <p>
 *
 * @see DeploymentPackage#uninstallForced()
 */
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
 * Constant String to the "cancel" action.
 * <p>
 *
 * @see DeploymentAdmin#cancel()
 */
public static final String CANCEL = "cancel";

/**
 * Constant String to the "metadata" action.
 * <p>
 *
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String,
 * String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResources()
 */
public static final String METADATA = "metadata";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;
static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pkg = System.getProperty(delegateProperty);
            if (null == pkg)
                throw new RuntimeException("Property '" + delegateProperty + "' is not set");
            try {
                Class c = Class.forName(pkg + ".DeploymentAdminPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

```

```

    }
    }
  });
}

/**
 * Creates a new {@code DeploymentAdminPermission} object for the given
 * {@code name} and {@code action}.
 *
 * <p>
 * The {@code name} parameter identifies the target deployment package the
 * permission relates to. The {@code actions} parameter contains the comma
 * separated list of allowed actions.
 *
 *
 * @param name filter string, must not be null.
 * @param actions action string, must not be null. "*" means all the
 * possible actions.
 * @throws IllegalArgumentException if the filter is invalid, the list of
 * actions contains unknown operations or one of the parameters is
 * null
 */
public DeploymentAdminPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

/**
 * Checks two DeploymentAdminPermission objects for equality. Two permission
 * objects are equal if:
 *
 * <p>
 *
 * <ul>
 * <li>their target filters are semantically equal and</li>
 * <li>their actions are the same</li>
 * </ul>
 *
 *
 * @param obj The reference object with which to compare.

```



```

* @return true if the two objects are equal.
* @see java.lang.Object#equals(java.lang.Object)
*/
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentAdminPermission))
        return false;
    DeploymentAdminPermission dap = (DeploymentAdminPermission) obj;
    return delegate.equals(dap.delegate);
}

/**
 * Returns hash code for this permission object.
 *
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 * <p>
 * The method always gives back the actions in the following (alphabetical)
 * order:
 * { @code cancel, install, list, metadata, uninstall, uninstall_forced }
 *
 * @return Action list of this permission instance. This is a
 * comma-separated list that reflects the action parameter of the
 * constructor.
 * @see java.security.Permission#getActions()
 */
public String getActions() {
    return delegate.getActions();
}

/**
 * Checks if this DeploymentAdminPermission would imply the parameter
 * permission.
 * <p>
 * Precondition of the implication is that the action set of this permission
 * is the superset of the action set of the other permission. Further rules
 * of implication are determined by the { @link org.osgi.framework.Filter }
 * rules and the "OSGi Service Platform, Core Specification Release 4,
 * Chapter Certificate Matching".
 * <p>

```

```

*
* The allowed attributes are: { @code name } (the symbolic name of the
* deployment package) and { @code signer } (the signer of the deployment
* package). In both cases wildcards can be used.
* <p>
*
* Examples:
*
* <pre>
* 1. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list")
* 2. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list, install")
* 3. DeploymentAdminPermission("(name=org.osgi.*)", "list")
* 4. DeploymentAdminPermission("(signer=*, o=ACME, c=US)", "list")
* 5. DeploymentAdminPermission("(signer=cn=Bugs Bunny, o=ACME, c=US)", "list")
* </pre>
* <p>
*
* <pre>
* 1. implies 1.
* 2. implies 1.
* 1. doesn't implies 2.
* 3. implies 1.
* 4. implies 5.
* </pre>
*
* @param permission Permission to check.
* @return true if this DeploymentAdminPermission object implies the
*         specified permission.
* @see java.security.Permission#implies(java.security.Permission)
* @see org.osgi.framework.Filter
*/
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentAdminPermission))
        return false;

    DeploymentAdminPermission dap = (DeploymentAdminPermission) permission;

    return delegate.implies(dap.delegate);
}

/**
* Returns a new PermissionCollection object for storing
* DeploymentAdminPermission objects.
*
* @return The new PermissionCollection.
* @see java.security.Permission#newPermissionCollection()
*/
public PermissionCollection newPermissionCollection() {

```

```

    return delegate.newPermissionCollection();
}

}

/*
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 * limitations under the License.
 */

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to send alerts to management servers,
 * identified by their principal names.
 *
 * <p>
 * { @code AlertPermission } has a target string which controls the principal
 * names where alerts can be sent. A wildcard is allowed at the end of the
 * target string, to allow sending alerts to any principal with a name matching
 * the given prefix. The &quot;*&quot; target means that alerts can be sent to
 * any destination.
 *
 * @author $Id: c6a01d2c5e33287b1fd6bf40fedca908e9ddd072 $
 */
public class AlertPermission extends Permission {
    private static final long serialVersionUID = -3206463101788245739L;

    // specifies whether the target string had a wildcard at the end
    private final boolean isPrefix;

    // the target string without the wildcard (if there was one)

```

```

private final String serverId;

/**
 * Creates a new {@code AlertPermission} object with its name set to the
 * target string. Name must be non-null and non-empty.
 *
 * @param target the name of a principal, can end with {@code *} to match
 * any principal identifier with the given prefix
 * @throws NullPointerException if {@code name} is {@code null}
 * @throws IllegalArgumentException if {@code name} is empty
 */
public AlertPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals(""))
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        serverId = target.substring(0, target.length() - 1);
    else
        serverId = target;
}

/**
 * Creates a new {@code AlertPermission} object using the 'canonical' two
 * argument constructor. In this version this class does not define any
 * actions, the second argument of this constructor must be "*" so that this
 * class can later be extended in a backward compatible way.
 *
 * @param target the name of the server, can end with {@code *} to match any
 * server identifier with the given prefix
 * @param actions no actions defined, must be "*" for forward compatibility
 * @throws NullPointerException if {@code name} or {@code actions} is
 * {@code null}
 * @throws IllegalArgumentException if {@code name} is empty or
 * {@code actions} is not "*"
 */
public AlertPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");

    if (!actions.equals("*"))

```

```

        throw new IllegalArgumentException("'actions' parameter must be \"*\".");
    }

/**
 * Checks whether the given object is equal to this AlertPermission
 * instance. Two AlertPermission instances are equal if they have the same
 * target string.
 *
 * @param obj the object to compare to this AlertPermission instance
 * @return { @code true } if the parameter represents the same permissions as
 *         this instance
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof AlertPermission))
        return false;

    AlertPermission other = (AlertPermission) obj;

    return isPrefix == other.isPrefix && serverId.equals(other.serverId);
}

/**
 * Returns the action list (always { @code * } in the current version).
 *
 * @return the action string &quot;*&quot;
 */
public String getActions() {
    return "*";
}

/**
 * Returns the hash code for this permission object. If two AlertPermission
 * objects are equal according to the { @link #equals(Object) } method, then
 * calling this method on each of the two AlertPermission objects must
 * produce the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ serverId.hashCode();
}

/**
 * Checks if this AlertPermission object implies the specified permission.
 * Another AlertPermission instance is implied by this permission either if

```

```

* the target strings are identical, or if this target can be made identical
* to the other target by replacing a trailing &quot;*&quot; with any
* string.
*
* @param p the permission to check for implication
* @return true if this AlertPermission instance implies the specified
*       permission
*/
public boolean implies(Permission p) {
    if (!(p instanceof AlertPermission))
        return false;

    AlertPermission other = (AlertPermission) p;

    return impliesServer(other);
}

/**
 * Returns a new PermissionCollection object for storing AlertPermission
 * objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtAlertPermissionCollection();
}

/**
 * Returns true if the server name parameter of the given AlertPermission is
 * implied by the server name of this permission, i.e. this server name is a
 * prefix of the other one but ends with a *, or the two server names are
 * equal.
 */
boolean impliesServer(AlertPermission p) {
    return isPrefix ? p.serverId.startsWith(serverId) : !p.isPrefix && p.serverId.equals(serverId);
}
}

/**
 * Represents a homogeneous collection of AlertPermission objects.
 */
final class DmtAlertPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 2288462124510043429L;

    private ArrayList perms;

    /**
     * Create an empty DmtAlertPermissionCollection object.

```

```

*/
public DmtAlertPermissionCollection() {
    perms = new ArrayList();
}

/**
 * Adds a permission to the DmtAlertPermissionCollection.
 *
 * @param permission the Permission object to add
 * @exception IllegalArgumentException if the permission is not a
 *         AlertPermission
 * @exception SecurityException if this DmtAlertPermissionCollection object
 *         has been marked readonly
 */
public void add(Permission permission) {
    if (!(permission instanceof AlertPermission))
        throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
    if (isReadOnly())
        throw new SecurityException("Cannot add permission, collection is marked read-only.");

    // only add new permission if it is not already implied by the
    // permissions in the collection
    if (!implies(permission)) {
        // remove all permissions that are implied by the new one
        Iterator i = perms.iterator();
        while (i.hasNext())
            if (permission.implies((AlertPermission) i.next()))
                i.remove();

        // no need to synchronize because all adds are done sequentially
        // before any implies() calls
        perms.add(permission);
    }
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof AlertPermission))
        return false;

```

```

AlertPermission other = (AlertPermission) permission;

Iterator i = perms.iterator();
while (i.hasNext())
    if (((AlertPermission) i.next()).impliesServer(other))
        return true;

return false;
}

/**
 * Returns an enumeration of all the AlertPermission objects in the
 * container. The returned value cannot be { @code null }.
 *
 * @return an enumeration of all the AlertPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}
}
/*
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 *
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 * limitations under the License.
 */

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.StringTokenizer;
import org.osgi.service.dmt.Acl;
import org.osgi.service.dmt.Uri;

```



```

/**
 * Controls access to management objects in the Device Management Tree (DMT). It
 * is intended to control local access to the DMT. DmtPermission target string
 * identifies the management object URI and the action field lists the OMA DM
 * commands that are permitted on the management object. Example:
 *
 * <pre>
 * DmtPermission(&quot;./OSGi/bundles&quot;, &quot;Add,Replace,Get&quot;);
 * </pre>
 *
 * This means that owner of this permission can execute Add, Replace and Get
 * commands on the ./OSGi/bundles management object. It is possible to use
 * wildcards in both the target and the actions field. Wildcard in the target
 * field means that the owner of the permission can access children nodes of the
 * target node. Example:
 *
 * <pre>
 * DmtPermission(&quot;./OSGi/bundles/*&quot;, &quot;Get&quot;);
 * </pre>
 *
 * This means that owner of this permission has Get access on every child node
 * of ./OSGi/bundles. The asterisk does not necessarily have to follow a '/'
 * character. For example the { @code "./OSGi/a*" } target matches the
 * { @code ./OSGi/applications } subtree.
 * <p>
 * If wildcard is present in the actions field, all legal OMA DM commands are
 * allowed on the designated nodes(s) by the owner of the permission. Action
 * names are interpreted case-insensitively, but the canonical action string
 * returned by { @link #getActions() } uses the forms defined by the action
 * constants.
 *
 * @author $Id: 5fc6f3d37c4fac64313f532ad9bd9f07bc48dc39 $
 */
public class DmtPermission extends Permission {
    private static final long serialVersionUID = -1910969921419407809L;

/**
 * Holders of DmtPermission with the Add action present can create new nodes
 * in the DMT, that is they are authorized to execute the
 * createInteriorNode() and createLeafNode() methods of the DmtSession. This
 * action is also required for the copy() command, which needs to perform
 * node creation operations (among others).
 */
    public static final String ADD = "Add";

/**
 * Holders of DmtPermission with the Delete action present can delete nodes

```

```

* from the DMT, that is they are authorized to execute the deleteNode()
* method of the DmtSession.
*/
public static final String DELETE = "Delete";

/**
* Holders of DmtPermission with the Exec action present can execute nodes
* in the DMT, that is they are authorized to call the execute() method of
* the DmtSession.
*/
public static final String EXEC = "Exec";

/**
* Holders of DmtPermission with the Get action present can query DMT node
* value or properties, that is they are authorized to execute the
* isLeafNode(), getNodeAcl(), getEffectiveNodeAcl(), getMetaNode(),
* getNodeValue(), getChildNodeNames(), getNodeTitle(), getNodeVersion(),
* getNodeTimeStamp(), getNodeSize() and getNodeType() methods of the
* DmtSession. This action is also required for the copy() command, which
* needs to perform node query operations (among others).
*/
public static final String GET = "Get";

/**
* Holders of DmtPermission with the Replace action present can update DMT
* node value or properties, that is they are authorized to execute the
* setNodeAcl(), setNodeTitle(), setNodeValue(), setNodeType() and
* renameNode() methods of the DmtSession. This action is also be required
* for the copy() command if the original node had a title property (which
* must be set in the new node).
*/
public static final String REPLACE = "Replace";

// does this permission have a wildcard at the end?
private final boolean prefixPath;

// the name without the wildcard on the end
private final String path;

// the actions mask
private final int mask;

// the canonical action string (redundant)
private final String actions;

/**
* Creates a new DmtPermission object for the specified DMT URI with the
* specified actions. The given URI can be:

```

```

* <ul>
* <li> { @code "*" }, which matches all valid (see
* { @link Uri#isValidUri(String)} absolute URIs;</li>
* <li>the prefix of an absolute URI followed by the { @code * } character
* (for example { @code "./OSGi/L*"}), which matches all valid absolute URIs
* beginning with the given prefix;</li>
* <li>a valid absolute URI, which matches itself.</li>
* </ul>

```

```

* <p>
* Since the { @code * } character is itself a valid URI character, it can
* appear as the last character of a valid absolute URI. To distinguish this
* case from using { @code * } as a wildcard, the { @code * } character at the
* end of the URI must be escaped with the { @code \ } character. For example
* the URI { @code "./a*" } matches { @code "./a"}, { @code "./aa"},
* { @code "./a/b"} etc. while { @code "./a\*" } matches { @code "./a*" } only.
* <p>

```

```

* The actions string must either be "*" to allow all actions, or it must
* contain a non-empty subset of the valid actions, defined as constants in
* this class.

```

```

*
* @param dmtUri URI of the management object (or subtree)
* @param actions OMA DM actions allowed
* @throws NullPointerException if any of the parameters are { @code null}
* @throws IllegalArgumentException if any of the parameters are invalid
*/

```

```

public DmtPermission(String dmtUri, String actions) {
    super(dmtUri);
    mask = getMask(actions);
    this.actions = canonicalActions(mask);

    if (dmtUri == null)
        throw new NullPointerException("'dmtUri' parameter must not be " + "null.");

    prefixPath = dmtUri.endsWith("*") && !dmtUri.endsWith("\\*");

    if (prefixPath) {
        dmtUri = dmtUri.substring(0, dmtUri.length() - 1);

        // the single "*" as dmtUri is the only valid non-absolute URI param
        if (dmtUri.length() == 0) {
            path = "";
            return;
        }
    }

    // if URI ends with "/*", remove it before the validity check
    if (prefixPath && dmtUri.endsWith("/") && !dmtUri.endsWith("\\\\"))
        checkUri(dmtUri.substring(0, dmtUri.length() - 1));
}

```

```

else
    checkUri(dmtUri);

// canonicalize URI: remove escapes from non-special characters
StringBuffer sb = new StringBuffer(dmtUri);
int i = 0;
while (i < sb.length()) { // length can decrease during the loop!
    if (sb.charAt(i) == '\\') {
        // there must be a next character after a '\' in a valid URI
        char nextCh = sb.charAt(i + 1);
        if (nextCh != '/' && nextCh != '\\')
            sb.deleteCharAt(i); // remove the extra '\'
        else
            i++;
    }
    i++;
}
path = sb.toString();
}

private void checkUri(String dmtUri) throws IllegalArgumentException {
    if (!Uri.isValidUri(dmtUri))
        throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain a valid URI.");

    if (!Uri.isAbsoluteUri(dmtUri))
        throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain an absolute URI.");
}

/**
 * Checks whether the given object is equal to this DmtPermission instance.
 * Two DmtPermission instances are equal if they have the same target string
 * and the same action mask. The "*" action mask is considered equal to a
 * mask containing all actions.
 *
 * @param obj the object to compare to this DmtPermission instance
 * @return {@code true} if the parameter represents the same permissions as
 *         this instance
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof DmtPermission))
        return false;

    DmtPermission other = (DmtPermission) obj;

    return mask == other.mask && prefixPath == other.prefixPath && path.equals(other.path);
}

```

```

}

/**
 * Returns the String representation of the action list. The allowed actions
 * are listed in the following order: Add, Delete, Exec, Get, Replace. The
 * wildcard character is not used in the returned string, even if the class
 * was created using the "*" wildcard.
 *
 * @return canonical action list for this permission object
 */
public String getActions() {
    return actions;
}

/**
 * Returns the hash code for this permission object. If two DmtPermission
 * objects are equal according to the {@link #equals(Object)} method, then
 * calling this method on each of the two DmtPermission objects must produce
 * the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Integer(mask).hashCode() ^ new Boolean(prefixPath).hashCode() ^ path.hashCode();
}

/**
 * Checks if this DmtPermission object &quot;implies&quot; the specified
 * permission. This method returns { @code false } if and only if at least one
 * of the following conditions are fulfilled for the specified permission:
 * <ul>
 * <li>it is not a DmtPermission</li>
 * <li>its set of actions contains an action not allowed by this permission</li>
 * <li>the set of nodes defined by its path contains a node not defined by
 * the path of this permission</li>
 * </ul>
 *
 * @param p the permission to check for implication
 * @return true if this DmtPermission instance implies the specified
 *         permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPermission))
        return false;

    DmtPermission other = (DmtPermission) p;

    if ((mask & other.mask) != other.mask)

```

```

return false;

return impliesPath(other);
}

/**
 * Returns a new PermissionCollection object for storing DmtPermission
 * objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
return new DmtPermissionCollection();
}

// parses the given action string, and returns the corresponding action mask
private static int getMask(String actions) {
int mask = 0;

if (actions == null)
throw new NullPointerException("'actions' parameter cannot be null.");

if (actions.equals("*"))
return Acl.ALL_PERMISSION;

// empty tokens (swallowed by StringTokenizer) are not considered errors
StringTokenizer st = new StringTokenizer(actions, ",");
while (st.hasMoreTokens()) {
String action = st.nextToken().trim();
if (action.equalsIgnoreCase(GET)) {
mask |= Acl.GET;
} else
if (action.equalsIgnoreCase(ADD)) {
mask |= Acl.ADD;
} else
if (action.equalsIgnoreCase(REPLACE)) {
mask |= Acl.REPLACE;
} else
if (action.equalsIgnoreCase(DELETE)) {
mask |= Acl.DELETE;
} else
if (action.equalsIgnoreCase(EXEC)) {
mask |= Acl.EXEC;
} else
throw new IllegalArgumentException("Invalid action '" + action + "'");
}

if (mask == 0)

```

```

        throw new IllegalArgumentException("Action mask cannot be empty.");

    return mask;
}

// generates the canonical string representation of the action list
private static String canonicalActions(int mask) {
    StringBuffer sb = new StringBuffer();
    addAction(sb, mask, Acl.ADD, ADD);
    addAction(sb, mask, Acl.DELETE, DELETE);
    addAction(sb, mask, Acl.EXEC, EXEC);
    addAction(sb, mask, Acl.GET, GET);
    addAction(sb, mask, Acl.REPLACE, REPLACE);
    return sb.toString();
}

// if 'flag' appears in 'mask', appends the 'action' string to the contents
// of 'sb', separated by a comma if needed
private static void addAction(StringBuffer sb, int mask, int flag, String action) {
    if ((mask & flag) != 0) {
        if (sb.length() > 0)
            sb.append(',');
        sb.append(action);
    }
}

// used by DmtPermissionCollection to retrieve the action mask
int getMask() {
    return mask;
}

// returns true if the path parameter of the given DmtPermission is
// implied by the path of this permission, i.e. this path is a prefix of the
// other path, but ends with a *, or the two path strings are equal
boolean impliesPath(DmtPermission p) {
    return prefixPath ? p.path.startsWith(path) : !p.prefixPath && p.path.equals(path);
}

}

/**
 * Represents a homogeneous collection of DmtPermission objects.
 */
final class DmtPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -4172481774562012941L;

    // OPTIMIZE keep a special flag for permissions of "*" path

    private ArrayList perms;

```

```

/**
 * Create an empty DmtPermissionCollection object.
 */
public DmtPermissionCollection() {
    perms = new ArrayList();
}

/**
 * Adds a permission to the DmtPermissionCollection.
 *
 * @param permission the Permission object to add
 * @exception IllegalArgumentException if the permission is not a
 *         DmtPermission
 * @exception SecurityException if this DmtPermissionCollection object has
 *         been marked readonly
 */
public void add(Permission permission) {
    if (!(permission instanceof DmtPermission))
        throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
    if (isReadOnly())
        throw new SecurityException("Cannot add permission, collection is marked read-only.");

    // No need to synchronize because all adds are done sequentially
    // before any implies() calls
    perms.add(permission);
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof DmtPermission))
        return false;

    DmtPermission other = (DmtPermission) permission;

    int required = other.getMask();
    int available = 0;
    int needed = required;

    Iterator i = perms.iterator();
    while (i.hasNext()) {

```



```

DmtPermission p = (DmtPermission) i.next();
if (((needed & p.getMask()) != 0) && p.impliesPath(other)) {
    available |= p.getMask();
    if ((available & required) == required)
        return true;
    needed = (required ^ available);
}
}

return false;
}

/**
 * Returns an enumeration of all the DmtPermission objects in the container.
 * The returned value cannot be { @code null }.
 *
 * @return an enumeration of all the DmtPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}
}
/*
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 * limitations under the License.
 */

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

```

```

/**
 * Indicates the callers authority to create DMT sessions on behalf of a remote
 * management server. Only protocol adapters communicating with management
 * servers should be granted this permission.
 * <p>
 * { @code DmtPrincipalPermission } has a target string which controls the name of
 * the principal on whose behalf the protocol adapter can act. A wildcard is
 * allowed at the end of the target string, to allow using any principal name
 * with the given prefix. The &quot;*&quot; target means the adapter can create
 * a session in the name of any principal.
 *
 * @author $Id: f58885e938ced170c689e746d5326e01c5fa8079 $
 */
public class DmtPrincipalPermission extends Permission {
    private static final long serialVersionUID = 6388752177325038332L;

    // specifies whether the target string had a wildcard at the end
    private final boolean isPrefix;

    // the target string without the wildcard (if there was one)
    private final String principal;

    /**
     * Creates a new { @code DmtPrincipalPermission } object with its name set to
     * the target string. Name must be non-null and non-empty.
     *
     * @param target the name of the principal, can end with { @code * } to match
     * any principal with the given prefix
     * @throws NullPointerException if { @code name } is { @code null }
     * @throws IllegalArgumentException if { @code name } is empty
     */
    public DmtPrincipalPermission(String target) {
        super(target);

        if (target == null)
            throw new NullPointerException("'target' parameter must not be null.");

        if (target.equals(""))
            throw new IllegalArgumentException("'target' parameter must not be empty.");

        isPrefix = target.endsWith("*");
        if (isPrefix)
            principal = target.substring(0, target.length() - 1);
        else
            principal = target;
    }

    /**

```

```

* Creates a new { @code DmtPrincipalPermission } object using the 'canonical'
* two argument constructor. In this version this class does not define any
* actions, the second argument of this constructor must be "*" so that this
* class can later be extended in a backward compatible way.
*
* @param target the name of the principal, can end with { @code *} to match
*     any principal with the given prefix
* @param actions no actions defined, must be "*" for forward compatibility
* @throws NullPointerException if { @code name } or { @code actions } is
*     { @code null }
* @throws IllegalArgumentException if { @code name } is empty or
*     { @code actions } is not "*"
*/
public DmtPrincipalPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("actions' parameter must not be null.");

    if (!actions.equals("*"))
        throw new IllegalArgumentException("actions' parameter must be \"*\".");
}

/**
* Checks whether the given object is equal to this DmtPrincipalPermission
* instance. Two DmtPrincipalPermission instances are equal if they have the
* same target string.
*
* @param obj the object to compare to this DmtPrincipalPermission instance
* @return { @code true } if the parameter represents the same permissions as
*     this instance
*/
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) obj;

    return isPrefix == other.isPrefix && principal.equals(other.principal);
}

/**
* Returns the action list (always { @code *} in the current version).
*
* @return the action string &quot;*&quot;

```

```

*/
public String getActions() {
    return "*";
}

/**
 * Returns the hash code for this permission object. If two
 * DmtPrincipalPermission objects are equal according to the
 * {@link #equals(Object)} method, then calling this method on each of the
 * two DmtPrincipalPermission objects must produce the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ principal.hashCode();
}

/**
 * Checks if this DmtPrincipalPermission object implies the specified
 * permission. Another DmtPrincipalPermission instance is implied by this
 * permission either if the target strings are identical, or if this target
 * can be made identical to the other target by replacing a trailing
 * " " with any string.
 *
 * @param p the permission to check for implication
 * @return true if this DmtPrincipalPermission instance implies the
 *         specified permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) p;

    return impliesPrincipal(other);
}

/**
 * Returns a new PermissionCollection object for storing
 * DmtPrincipalPermission objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtPrincipalPermissionCollection();
}

/*

```

```

* Returns true if the principal parameter of the given
* DmtPrincipalPermission is implied by the principal of this permission,
* i.e. this principal is a prefix of the other principal but ends with a *,
* or the two principal strings are equal.
*/
boolean impliesPrincipal(DmtPrincipalPermission p) {
    return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
}
}

/**
* Represents a homogeneous collection of DmtPrincipalPermission objects.
*/
final class DmtPrincipalPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -6692103535775802684L;

    private ArrayList perms;

    /**
    * Create an empty DmtPrincipalPermissionCollection object.
    */
    public DmtPrincipalPermissionCollection() {
        perms = new ArrayList();
    }

    /**
    * Adds a permission to the DmtPrincipalPermissionCollection.
    *
    * @param permission the Permission object to add
    * @exception IllegalArgumentException if the permission is not a
    *         DmtPrincipalPermission
    * @exception SecurityException if this DmtPrincipalPermissionCollection
    *         object has been marked readonly
    */
    public void add(Permission permission) {
        if (!(permission instanceof DmtPrincipalPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, collection is marked read-only.");

        // only add new permission if it is not already implied by the
        // permissions in the collection
        if (!implies(permission)) {
            // remove all permissions that are implied by the new one
            Iterator i = perms.iterator();
            while (i.hasNext())
                if (permission.implies((DmtPrincipalPermission) i.next()))
                    i.remove();
        }
    }
}

```

```

// no need to synchronize because all adds are done sequentially
// before any implies() calls
perms.add(permission);

}
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) permission;

    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((DmtPrincipalPermission) i.next()).impliesPrincipal(other))
            return true;

    return false;
}

/**
 * Returns an enumeration of all the DmtPrincipalPermission objects in the
 * container. The returned value cannot be {@code null}.
 *
 * @return an enumeration of all the DmtPrincipalPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}
}
/*
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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.osgi.service.dmt;
```

```
/**
 * Unchecked illegal state exception. This class is used in DMT because
 * java.lang.IllegalStateException does not exist in CLDC.
 *
 * @author $Id: ab7441ab9ccea82894de416498a66b9376001581 $
 */
```

```
public class DmtIllegalStateException extends RuntimeException {
    private static final long serialVersionUID = 2015244852018469700L;
```

```
/**
 * Create an instance of the exception with no message.
 */
```

```
public DmtIllegalStateException() {
    super();
}
```

```
/**
 * Create an instance of the exception with the specified message.
 *
 * @param message the reason for the exception
 */
```

```
public DmtIllegalStateException(String message) {
    super(message);
}
```

```
/**
 * Create an instance of the exception with the specified cause exception
 * and no message.
 *
 * @param cause the cause of the exception
 */
```

```
public DmtIllegalStateException(Throwable cause) {
    super(cause);
}
```

```
/**
 * Create an instance of the exception with the specified message and cause
```

```

* exception.
*
* @param message the reason for the exception
* @param cause the cause of the exception
*/
public DmtIllegalStateException(String message, Throwable cause) {
    super(message, cause);
}
}
/*
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* limitations under the License.
*/

package org.osgi.service.event;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Hashtable;
import java.util.List;
import java.util.Map;

/**
* A bundle's authority to publish or subscribe to event on a topic.
*
* <p>
* A topic is a slash-separated string that defines a topic.
* <p>
* For example:

```



```

*
* <pre>
* org/osgi/service/foo/FooEvent/ACTION
* </pre>
*
* <p>
* {@code TopicPermission} has two actions: {@code publish} and
* {@code subscribe}.
*
* @ThreadSafe
* @author $Id: f20bc549a406856113998df2068c0fb3e8c0be88 $
*/
public final class TopicPermission extends Permission {
    static final long serialVersionUID = -5855563886961618300L;
    /**
     * The action string {@code publish}.
     */
    public final static String PUBLISH = "publish";
    /**
     * The action string {@code subscribe}.
     */
    public final static String SUBSCRIBE = "subscribe";
    private final static int ACTION_PUBLISH = 0x00000001;
    private final static int ACTION_SUBSCRIBE = 0x00000002;
    private final static int ACTION_ALL = ACTION_PUBLISH | ACTION_SUBSCRIBE;
    private final static int ACTION_NONE = 0;
    /**
     * The actions mask.
     */
    private transient int action_mask;

    /**
     * prefix if the name is wildcarded.
     */
    private transient volatile String prefix;

    /**
     * The actions in canonical form.
     *
     * @serial
     */
    private volatile String actions = null;

    /**
     * Defines the authority to publish and/or subscribe to a topic within the
     * EventAdmin service.
     * <p>
     * The name is specified as a slash-separated string. Wildcards may be used.

```

```

* For example:
*
* <pre>
*   org/osgi/service/fooFooEvent/ACTION
*   com/isv/*
*   *
* </pre>
*
* <p>
* A bundle that needs to publish events on a topic must have the
* appropriate { @code TopicPermission } for that topic; similarly, a bundle
* that needs to subscribe to events on a topic must have the appropriate
* { @code TopicPermssion } for that topic.
* <p>
*
* @param name Topic name.
* @param actions { @code publish },{ @code subscribe } (canonical order).
*/
public TopicPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by TopicPermissionCollection.
 *
 * @param name class name
 * @param mask action mask
 */
TopicPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 *
 * @param name topic name
 * @param mask action mask
 */
private synchronized void setTransients(final int mask) {
    final String name = getName();
    if ((name == null) || name.length() == 0) {
        throw new IllegalArgumentException("invalid name");
    }

    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
}

```

```

action_mask = mask;

if (name.equals("*")) {
    prefix = "";
} else {
    if (name.endsWith("/*")) {
        prefix = name.substring(0, name.length() - 1);
    } else {
        prefix = null;
    }
}

/**
 * Returns the current action mask.
 * <p>
 * Used by the TopicPermissionCollection class.
 *
 * @return Current action mask.
 */
synchronized int getActionsMask() {
    return action_mask;
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(final String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;
        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '\r' || c == '\n' || c == '\f' || c == '\t'))
            i--;
        // check for the known strings
        int matchlen;
        if (i >= 8 && (a[i - 8] == 's' || a[i - 8] == 'S'))

```

```

    && (a[i - 7] == 'u' || a[i - 7] == 'U')
    && (a[i - 6] == 'b' || a[i - 6] == 'B')
    && (a[i - 5] == 's' || a[i - 5] == 'S')
    && (a[i - 4] == 'c' || a[i - 4] == 'C')
    && (a[i - 3] == 'r' || a[i - 3] == 'R')
    && (a[i - 2] == 'i' || a[i - 2] == 'I')
    && (a[i - 1] == 'b' || a[i - 1] == 'B')
    && (a[i] == 'e' || a[i] == 'E')) {
matchlen = 9;
mask |= ACTION_SUBSCRIBE;
}
else
if (i >= 6 && (a[i - 6] == 'p' || a[i - 6] == 'P')
    && (a[i - 5] == 'u' || a[i - 5] == 'U')
    && (a[i - 4] == 'b' || a[i - 4] == 'B')
    && (a[i - 3] == 'l' || a[i - 3] == 'L')
    && (a[i - 2] == 'i' || a[i - 2] == 'I')
    && (a[i - 1] == 's' || a[i - 1] == 'S')
    && (a[i] == 'h' || a[i] == 'H')) {
matchlen = 7;
mask |= ACTION_PUBLISH;
}
else {
    // parse error
    throw new IllegalArgumentException("invalid permission: "
        + actions);
}
// make sure we didn't just match the tail of a word
// like "ackbarfpublish". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',':
        seencomma = true;
        /* FALLTHROUGH */
    case ' ':
    case '\r':
    case '\n':
    case '\f':
    case '\t':
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
    i--;
}
// point i at the location of the comma minus one (or -1).
i -= matchlen;

```

```

    }
    if (seencomma) {
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
    return mask;
}

/**
 * Determines if the specified permission is implied by this object.
 *
 * <p>
 * This method checks that the topic name of the target is implied by the
 * topic name of this object. The list of { @code TopicPermission } actions
 * must either match or allow for the list of the target object to imply the
 * target { @code TopicPermission } action.
 *
 * <pre>
 * x/y/*,&quot;publish&quot; -&gt; x/y/z,&quot;publish&quot; is true
 * *,&quot;subscribe&quot; -&gt; x/y,&quot;subscribe&quot; is true
 * *,&quot;publish&quot; -&gt; x/y,&quot;subscribe&quot; is false
 * x/y,&quot;publish&quot; -&gt; x/y/z,&quot;publish&quot; is false
 * </pre>
 *
 * @param p The target permission to interrogate.
 * @return { @code true } if the specified { @code TopicPermission } action is
 *         implied by this object; { @code false } otherwise.
 */
public boolean implies(Permission p) {
    if (p instanceof TopicPermission) {
        TopicPermission requested = (TopicPermission) p;
        int requestedMask = requested.getActionsMask();
        if ((getActionsMask() & requestedMask) == requestedMask) {
            String requestedName = requested.getName();
            String pre = prefix;
            if (pre != null) {
                return requestedName.startsWith(pre);
            }

            return requestedName.equals(getName());
        }
    }
    return false;
}

/**
 * Returns the canonical string representation of the
 * { @code TopicPermission } actions.
 *

```

```

* <p>
* Always returns present { @code TopicPermission } actions in the following
* order: { @code publish }, { @code subscribe }.
*
* @return Canonical string representation of the { @code TopicPermission }
*     actions.
*/
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;
        int mask = getActionsMask();
        if ((mask & ACTION_PUBLISH) == ACTION_PUBLISH) {
            sb.append(PUBLISH);
            comma = true;
        }
        if ((mask & ACTION_SUBSCRIBE) == ACTION_SUBSCRIBE) {
            if (comma)
                sb.append(',');
            sb.append(SUBSCRIBE);
        }
        actions = result = sb.toString();
    }
    return result;
}

/**
 * Returns a new { @code PermissionCollection } object suitable for storing
 * { @code TopicPermission } objects.
 *
 * @return A new { @code PermissionCollection } object.
 */
public PermissionCollection newPermissionCollection() {
    return new TopicPermissionCollection();
}

/**
 * Determines the equality of two { @code TopicPermission } objects.
 *
 * This method checks that specified { @code TopicPermission } has the same
 * topic name and actions as this { @code TopicPermission } object.
 *
 * @param obj The object to test for equality with this
 *     { @code TopicPermission } object.
 * @return { @code true } if { @code obj } is a { @code TopicPermission }, and has
 *     the same topic name and actions as this { @code TopicPermission }
 *     object; { @code false } otherwise.

```

```

*/
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof TopicPermission)) {
        return false;
    }
    TopicPermission tp = (TopicPermission) obj;
    return (getActionsMask() == tp.getActionsMask()) && getName().equals(tp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseActions(actions));
}
}

/**

```

```

* Stores a set of { @code TopicPermission } permissions.
*
* @see java.security.Permission
* @see java.security.Permissions
* @see java.security.PermissionCollection
*/
final class TopicPermissionCollection extends PermissionCollection {
    static final long    serialVersionUID = -614647783533924048L;
    /**
     * Table of permissions.
     *
     * @GuardedBy this
     */
    private transient Map<String, TopicPermission> permissions;
    /**
     * Boolean saying if "*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean    all_allowed;

    /**
     * Create an empty TopicPermissions object.
     *
     */
    public TopicPermissionCollection() {
        permissions = new HashMap<String, TopicPermission>();
        all_allowed = false;
    }

    /**
     * Adds a permission to the { @code TopicPermission } objects. The key for the
     * hash is the name.
     *
     * @param permission The { @code TopicPermission } object to add.
     *
     * @throws IllegalArgumentException If the permission is not a
     *     { @code TopicPermission } instance.
     *
     * @throws SecurityException If this { @code TopicPermissionCollection }
     *     object has been marked read-only.
     */
    public void add(final Permission permission) {
        if (!(permission instanceof TopicPermission)) {
            throw new IllegalArgumentException("invalid permission: " + permission);
        }
        if (isReadOnly()) {

```



```

    throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
}
final TopicPermission tp = (TopicPermission) permission;
final String name = tp.getName();
final int newMask = tp.getActionsMask();

synchronized (this) {
    final TopicPermission existing = permissions.get(name);
    if (existing != null) {
        final int oldMask = existing.getActionsMask();
        if (oldMask != newMask) {
            permissions.put(name, new TopicPermission(name, oldMask | newMask));
        }
    } else {
        permissions.put(name, tp);
    }
    if (!all_allowed) {
        if (name.equals("*"))
            all_allowed = true;
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in { @code permission}.
 *
 * @param permission The Permission object to compare with this
 *    { @code TopicPermission} object.
 *
 * @return { @code true} if { @code permission} is a proper subset of a
 *    permission in the set; { @code false} otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        return false;
    }
    final TopicPermission requested = (TopicPermission) permission;
    String name = requested.getName();
    final int desired = requested.getActionsMask();
    int effective = 0;

    TopicPermission x;
    // short circuit if the "*" Permission was added
    synchronized (this) {
        if (all_allowed) {
            x = permissions.get("*");
            if (x != null) {

```

```

    effective |= x.getActionsMask();
    if ((effective & desired) == desired) {
        return true;
    }
}
}
x = permissions.get(name);
}
// strategy:
// Check for full match first. Then work our way up the
// name looking for matches on a/b/*
if (x != null) {
    // we have a direct hit!
    effective |= x.getActionsMask();
    if ((effective & desired) == desired) {
        return true;
    }
}
// work our way up the tree...
int last;
int offset = name.length() - 1;
while ((last = name.lastIndexOf("/", offset)) != -1) {
    name = name.substring(0, last + 1) + "*";
    synchronized (this) {
        x = permissions.get(name);
    }
    if (x != null) {
        effective |= x.getActionsMask();
        if ((effective & desired) == desired) {
            return true;
        }
    }
    offset = last - 1;
}
// we don't have to check for "*" as it was already checked
// at the top (all_allowed), so we just return false
return false;
}

/**
 * Returns an enumeration of all {@code TopicPermission} objects in the
 * container.
 *
 * @return Enumeration of all {@code TopicPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

```

```

}

/* serialization logic */
private static final ObjectOutputStreamField[] serialPersistentFields = { new ObjectOutputStreamField("permissions",
Hashtable.class), new ObjectOutputStreamField("all_allowed", Boolean.TYPE)};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    Hashtable<String, TopicPermission> hashtable = new Hashtable<String, TopicPermission>(permissions);
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", hashtable);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
{
    ObjectInputStream.GetField gfields = in.readFields();
    Hashtable<String, TopicPermission> hashtable = (Hashtable<String, TopicPermission>) gfields.get("permissions",
null);
    permissions = new HashMap<String, TopicPermission>(hashtable);
    all_allowed = gfields.get("all_allowed", false);
}
}
/*
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*/

package org.osgi.service.monitor;

import java.io.UnsupportedEncodingException;
import java.security.Permission;
import java.util.StringTokenizer;

/**
* Indicates the callers authority to publish, read or reset
* { @code StatusVariable}s, to switch event sending on or off or to start

```

\* monitoring jobs. The target of the permission is the identifier of the  
\* { @code StatusVariable}, the action can be { @code read}, { @code publish},  
\* { @code reset}, { @code startjob}, { @code switchevents}, or the combination of  
\* these separated by commas. Action names are interpreted case-insensitively,  
\* but the canonical action string returned by { @link #getActions()} uses the  
\* forms defined by the action constants.

\* <p>

\* If the wildcard { @code \*} appears in the actions field, all legal monitoring  
\* commands are allowed on the designated target(s) by the owner of the  
\* permission.

\*

\* @author \$Id: 2899bf825eb4b7708601d99fb39019087deddefb \$

\*/

```
public class MonitorPermission extends Permission {
```

```
/**
```

```
*
```

```
*/
```

```
private static final long serialVersionUID = -9084425194463274314L;
```

```
/**
```

```
* Holders of { @code MonitorPermission} with the { @code read} action present  
* are allowed to read the value of the { @code StatusVariable}s specified in  
* the permission's target field.
```

```
*/
```

```
public static final String READ = "read";
```

```
/**
```

```
* Holders of { @code MonitorPermission} with the { @code reset} action  
* present are allowed to reset the value of the { @code StatusVariable}s  
* specified in the permission's target field.
```

```
*/
```

```
public static final String RESET = "reset";
```

```
/**
```

```
* Holders of { @code MonitorPermission} with the { @code publish} action  
* present are { @code Monitorable} services that are allowed to publish the  
* { @code StatusVariable}s specified in the permission's target field. Note,  
* that this permission cannot be enforced when a { @code Monitorable}  
* registers to the framework, because the Service Registry does not know  
* about this permission. Instead, any { @code StatusVariable}s published by  
* a { @code Monitorable} without the corresponding { @code publish}  
* permission are silently ignored by { @code MonitorAdmin}, and are  
* therefore invisible to the users of the monitoring service.
```

```
*/
```

```
public static final String PUBLISH = "publish";
```

```
/**
```

```

* Holders of { @code MonitorPermission } with the { @code startjob } action
* present are allowed to initiate monitoring jobs involving the
* { @code StatusVariable }s specified in the permission's target field.
* <p>
* A minimal sampling interval can be optionally defined in the following
* form: { @code startjob:n }. This allows the holder of the permission to
* initiate time based jobs with a measurement interval of at least
* { @code n } seconds. If { @code n } is not specified or 0 then the holder of
* this permission is allowed to start monitoring jobs specifying any
* frequency.
*/
public static final String STARTJOB = "startjob";

/**
* Holders of { @code MonitorPermission } with the { @code switchevents } action
* present are allowed to switch event sending on or off for the value of
* the { @code StatusVariable }s specified in the permission's target field.
*/
public static final String SWITCHEVENTS = "switchevents";

private static final int READ_FLAG = 0x1;
private static final int RESET_FLAG = 0x2;
private static final int PUBLISH_FLAG = 0x4;
private static final int STARTJOB_FLAG = 0x8;
private static final int SWITCHEVENTS_FLAG = 0x10;

private static final int ALL_FLAGS = READ_FLAG | RESET_FLAG | PUBLISH_FLAG | STARTJOB_FLAG |
SWITCHEVENTS_FLAG;

private String monId;
private String varId;
private boolean prefixMonId;
private boolean prefixVarId;
private int mask;
private int minJobInterval;

/**
* Create a { @code MonitorPermission } object, specifying the target and
* actions.
* <p>
* The { @code statusVariable } parameter is the target of the permission,
* defining one or more status variable names to which the specified actions
* apply. Multiple status variable names can be selected by using the
* wildcard { @code * } in the target string. The wildcard is allowed in both
* fragments, but only at the end of the fragments.
* <p>
* For example, the following targets are valid:
* { @code com.mycomp.myapp/queue_length }, { @code com.mycomp.myapp/* },

```

```

* <code>com.mycomp.&#42;/*</code>, <code>&#42;/*</code>,
* <code>&#42;/queue_length</code>, <code>&#42;/queue*</code>.
* <p>
* The following targets are invalid: { @code *.myapp/queue_length},
* { @code com.*.myapp/*}, { @code *}.
* <p>
* The { @code actions} parameter specifies the allowed action(s):
* { @code read}, { @code publish}, { @code startjob}, { @code reset},
* { @code switchevents}, or the combination of these separated by commas.
* String constants are defined in this class for each valid action. Passing
* { @code ""} as the action string is equivalent to listing all actions.
*
* @param statusVariable the identifier of the { @code StatusVariable} in
*   [Monitorable_id]/[StatusVariable_id] format
* @param actions the list of allowed actions separated by commas, or
*   { @code *} for all actions
* @throws java.lang.IllegalArgumentException if either parameter is
*   { @code null}, or invalid with regard to the constraints defined
*   above and in the documentation of the used actions
*/
public MonitorPermission(String statusVariable, String actions) throws IllegalArgumentException {
    super(statusVariable);

    if (statusVariable == null)
        throw new IllegalArgumentException("Invalid StatusVariable path 'null'.");

    if (actions == null)
        throw new IllegalArgumentException("Invalid actions string 'null'.");

    int sep = statusVariable.indexOf('/');
    int len = statusVariable.length();

    if (sep == -1)
        throw new IllegalArgumentException("Invalid StatusVariable path: should contain '/' separator.");
    if (sep == 0 || sep == statusVariable.length() - 1)
        throw new IllegalArgumentException("Invalid StatusVariable path: empty monitorable ID or StatusVariable name.");

    prefixMonId = statusVariable.charAt(sep - 1) == '*';
    prefixVarId = statusVariable.charAt(len - 1) == '*';

    monId = statusVariable.substring(0, prefixMonId ? sep - 1 : sep);
    varId = statusVariable.substring(sep + 1, prefixVarId ? len - 1 : len);

    checkId(monId, "Monitorable ID part of the target");
    checkId(varId, "Status Variable ID part of the target");

    minJobInterval = 0;

```

```

if (actions.equals("*"))
    mask = ALL_FLAGS;
else {
    mask = 0;
    StringTokenizer st = new StringTokenizer(actions, ",");
    while (st.hasMoreTokens()) {
        String action = st.nextToken().trim();
        if (action.equalsIgnoreCase(READ)) {
            addToMask(READ_FLAG, READ);
        } else
        if (action.equalsIgnoreCase(RESET)) {
            addToMask(RESET_FLAG, RESET);
        } else
        if (action.equalsIgnoreCase(PUBLISH)) {
            addToMask(PUBLISH_FLAG, PUBLISH);
        } else
        if (action.equalsIgnoreCase(SWITCHEVENTS)) {
            addToMask(SWITCHEVENTS_FLAG, SWITCHEVENTS);
        } else
        if (action.toLowerCase().startsWith(STARTJOB)) {
            minJobInterval = 0;

            int slen = STARTJOB.length();
            if (action.length() != slen) {
                if (action.charAt(slen) != ':')
                    throw new IllegalArgumentException("Invalid action '" + action + "'.");

                try {
                    minJobInterval = Integer.parseInt(action.substring(slen + 1));
                } catch (NumberFormatException e) {
                    throw new IllegalArgumentException("Invalid parameter in startjob action '" + action + "'.");
                }
            }
            addToMask(STARTJOB_FLAG, STARTJOB);
        } else
            throw new IllegalArgumentException("Invalid action '" + action + "'");
    }
}

private void addToMask(int action, String actionString) {
    if ((mask & action) != 0)
        throw new IllegalArgumentException("Invalid action string: " + actionString + " appears multiple times.");

    mask |= action;
}

```

```

private void checkId(String id, String idName) throws IllegalArgumentException {

    byte[] nameBytes;
    try {
        nameBytes = id.getBytes("UTF-8");
    } catch (UnsupportedEncodingException e) {
        // never happens, "UTF-8" must always be supported
        throw new IllegalStateException(e.getMessage());
    }
    if (nameBytes.length > StatusVariable.MAX_ID_LENGTH)
        throw new IllegalArgumentException(idName + " is too long (over " + StatusVariable.MAX_ID_LENGTH + "
bytes in UTF-8 encoding).");

    if (id.equals(".") || id.equals(".."))
        throw new IllegalArgumentException(idName + " is invalid.");

    char[] chars = id.toCharArray();
    for (int i = 0; i < chars.length; i++)
        if (StatusVariable.SYMBOLIC_NAME_CHARACTERS.indexOf(chars[i]) == -1)
            throw new IllegalArgumentException(idName + " contains invalid characters.");
    }

/**
 * Create an integer hash of the object. The hash codes of
 * { @code MonitorPermission}s { @code p1 } and { @code p2 } are the same if
 * { @code p1.equals(p2)}.
 *
 * @return the hash of the object
 */
public int hashCode() {
    return new Integer(mask).hashCode() ^ new Integer(minJobInterval).hashCode() ^ monId.hashCode() ^ new
Boolean(prefixMonId).hashCode() ^ varId.hashCode() ^ new Boolean(prefixVarId).hashCode();
}

/**
 * Determines the equality of two { @code MonitorPermission} objects. Two
 * { @code MonitorPermission} objects are equal if their target strings are
 * equal and the same set of actions are listed in their action strings.
 *
 * @param o the object being compared for equality with this object
 * @return { @code true} if the two permissions are equal
 */
public boolean equals(Object o) {
    if (!(o instanceof MonitorPermission))
        return false;

    MonitorPermission other = (MonitorPermission) o;

```



```

    return mask == other.mask && minJobInterval == other.minJobInterval && monId.equals(other.monId) &&
    prefixMonId == other.prefixMonId && varId.equals(other.varId)
        && prefixVarId == other.prefixVarId;
    }

/**
 * Get the action string associated with this permission. The actions are
 * returned in the following order: {@code read}, {@code reset},
 * {@code publish}, {@code startjob}, {@code switchevents}.
 *
 * @return the allowed actions separated by commas, cannot be {@code null}
 */
public String getActions() {
    StringBuffer sb = new StringBuffer();

    appendAction(sb, READ_FLAG, READ);
    appendAction(sb, RESET_FLAG, RESET);
    appendAction(sb, PUBLISH_FLAG, PUBLISH);
    appendAction(sb, STARTJOB_FLAG, STARTJOB);
    appendAction(sb, SWITCHEVENTS_FLAG, SWITCHEVENTS);

    return sb.toString();
}

private void appendAction(StringBuffer sb, int flag, String actionName) {
    if ((mask & flag) != 0) {
        if (sb.length() != 0)
            sb.append(',');
        sb.append(actionName);

        if (flag == STARTJOB_FLAG && minJobInterval != 0)
            sb.append(':').append(minJobInterval);
    }
}

/**
 * Determines if the specified permission is implied by this permission.
 * <p>
 * This method returns {@code false} if and only if at least one of the
 * following conditions are fulfilled for the specified permission:
 * <ul>
 * <li>it is not a {@code MonitorPermission}</li>
 * <li>it has a broader set of actions allowed than this one</li>
 * <li>it allows initiating time based monitoring jobs with a lower minimal
 * sampling interval</li>
 * <li>the target set of {@code Monitorable}s is not the same nor a subset
 * of the target set of {@code Monitorable}s of this permission</li>
 * <li>the target set of {@code StatusVariable}s is not the same nor a

```

```

* subset of the target set of { @code StatusVariable}s of this permission</li>
* </ul>
*
* @param p the permission to be checked
* @return { @code true} if the given permission is implied by this
*     permission
*/
public boolean implies(Permission p) {
    if (!(p instanceof MonitorPermission))
        return false;

    MonitorPermission other = (MonitorPermission) p;

    if ((mask & other.mask) != other.mask)
        return false;

    if ((other.mask & STARTJOB_FLAG) != 0 && minJobInterval > other.minJobInterval)
        return false;

    return implies(monId, prefixMonId, other.monId, other.prefixMonId) && implies(varId, prefixVarId, other.varId,
other.prefixVarId);
}

private boolean implies(String id, boolean prefix, String oid, boolean oprefix) {

    return prefix ? oid.startsWith(id) : !oprefix && id.equals(oid);
}
}

```

## 8.210 pax-logging 1.7.1

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The following people has contributed, at varying degree to  
the Pax Logging codebase;

Alin Dreghiciu	adreghiciu@gmail.com
Anders Janmyr	anders.janmyr@jayway.se
Andreas Ronge	andreas.ronge@jayway.se
Hirarm Chirino	chirino
Damian Golda	damian.golda@gmail.com
Per Bckman	dev2null
David Ribeiro Alves	dr-alves@criticalsoftware.com
Edward Yakop	edward.yakop@gmail.com
Guillaume Nodet	gnodet
Makas Lau	makas@ops4j.org
Stuart McCulloch	mcculls
Niclas Hedhman	niclas@hedhman.org
David Leangen	ops4j@leangen.net
Peter Neubauer	peter@neubauer.se
Pierre Parrend	pparrend
Raman Gupta	rocketraman@fastmail.fm
Toni Menzel	tonit
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# 8.211 persistence-antlr 2.5.0

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## 8.214 persistence-moxy 2.5.0

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## 8.215 Plexus Cipher: encryption/decryption

### Component 1.4

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## 8.216 plexus-build-api 0.0.7

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## 8.217 plexus-component-annotations 1.5.5

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## 8.218 plexus-container-default 1.5.5

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```

```
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```

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```

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*/

/**
 * Exception that is thrown when the class(es) required for a component
 * implementation are not available.
 *
 * @author Jason van Zyl
 *
 * @version $Id: ComponentImplementationNotFoundException.java 7089 2007-11-25 15:19:06Z jvanzyl $
 */
public class ComponentImplementationNotFoundException
    extends Exception
{
    private static final long serialVersionUID = -9171668987729438489L;

    /**
     * Construct a new ComponentImplementationNotFoundException instance.
     * @param message exception message
     */
    public ComponentImplementationNotFoundException( String message )
    {
        super( message );
    }

    /**
     * Construct a new ComponentImplementationNotFoundException instance.
     * @param message exception message
     * @param cause causing exception to chain
     */
    public ComponentImplementationNotFoundException( String message, Throwable cause )
    {
        super( message, cause );
    }
}
package org.codehaus.plexus.component.repository.exception;

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*/

/**
* Exception that is thrown when the class(es) required for a component
* implementation are not available.
*
* @author Jason van Zyl
* @version $Id: ComponentManagerImplementationNotFoundException.java 7089 2007-11-25 15:19:06Z jvanzyl
$
*/
public class ComponentManagerImplementationNotFoundException
    extends Exception
{
    private static final long serialVersionUID = 2365017114180373632L;

    /**
    * Construct a new ComponentManagerImplementationNotFoundException instance.
    * @param message exception message
    */
    public ComponentManagerImplementationNotFoundException( String message )
    {
        super( message );
    }

    /**
    * Construct a new ComponentManagerImplementationNotFoundException instance.
    * @param message exception message
    * @param cause causing exception to chain
    */
    public ComponentManagerImplementationNotFoundException( String message, Throwable cause )
    {
        super( message, cause );
    }
}
package org.codehaus.plexus;

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```



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```

public class DuplicateChildContainerException
    extends PlexusContainerException
{

    private final String parent;
    private final String child;

    public DuplicateChildContainerException( String parent, String child )
    {
        super( "Cannot create child container, because child named \" + child + "\" already exists in parent \" + parent +
        "\".");

        this.parent = parent;

        this.child = child;
    }

    public String getParent()
    {
        return parent;
    }

    public String getChild()
    {
        return child;
    }

}

```

## 8.219 plexus-interpolation 1.1.4

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 */

public final class DelimiterSpecification
{
    public static final DelimiterSpecification DEFAULT_SPEC = DelimiterSpecification.parse( "${*}" );

    private String begin;

    private String end;

    private int nextStart;

    public DelimiterSpecification( String begin, String end )
    {
        this.begin = begin;
        this.end = end;
    }

    public int getNextStartIndex()
    {
        return nextStart;
    }

    public void setNextStartIndex( int nextStart )
    {
        this.nextStart = nextStart;
    }

    public void clearNextStart()
    {
        nextStart = -1;
    }
}
```

```

}

public static DelimiterSpecification parse( String delimiterSpec )
{
    final String[] spec = new String[2];

    int splitIdx = delimiterSpec.indexOf( '*' );
    if ( splitIdx < 0 )
    {
        spec[0] = delimiterSpec;
        spec[1] = spec[0];
    }
    else if ( splitIdx == delimiterSpec.length() - 1 )
    {
        spec[0] = delimiterSpec.substring( 0, delimiterSpec.length() - 1 );
        spec[1] = spec[0];
    }
    else
    {
        spec[0] = delimiterSpec.substring( 0, splitIdx );
        spec[1] = delimiterSpec.substring( splitIdx + 1 );
    }

    return new DelimiterSpecification( spec[0], spec[1] );
}

public String getBegin()
{
    return begin;
}

public String getEnd()
{
    return end;
}

public int hashCode()
{
    final int prime = 31;
    int result = 1;
    result = prime * result + ( ( begin == null ) ? 0 : begin.hashCode() );
    result = prime * result + ( ( end == null ) ? 0 : end.hashCode() );
    return result;
}

public boolean equals( Object obj )
{
    if ( this == obj )

```

```

        return true;
    if ( obj == null )
        return false;
    if ( getClass() != obj.getClass() )
        return false;
    DelimiterSpecification other = (DelimiterSpecification) obj;
    if ( begin == null )
    {
        if ( other.begin != null )
            return false;
    }
    else if ( !begin.equals( other.begin ) )
        return false;
    if ( end == null )
    {
        if ( other.end != null )
            return false;
    }
    else if ( !end.equals( other.end ) )
        return false;
    return true;
}

public String toString()
{
    return "Interpolation delimiter [begin: " + begin + ", end: " + end + "]";
}

}
/*
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 \*/

```
package org.codehaus.plexus.interpolation.multi;

import org.codehaus.plexus.interpolation.InterpolationException;
import org.codehaus.plexus.interpolation.Interpolator;
import org.codehaus.plexus.interpolation.RecursionInterceptor;
import org.codehaus.plexus.interpolation.SimpleRecursionInterceptor;

import java.io.FilterReader;
import java.io.IOException;
import java.io.Reader;
import java.util.Iterator;
import java.util.LinkedHashSet;
```

```

/**
 * A FilterReader implementation, that works with Interpolator interface instead of it's own interpolation
 * implementation. This implementation is heavily based on org.codehaus.plexus.util.InterpolationFilterReader.
 *
 * @author cstamas
 * @version $Id: InterpolatorFilterReader.java 8351 2009-08-20 22:25:14Z jdcasey $
 */
public class MultiDelimiterInterpolatorFilterReader
    extends FilterReader
{

    /** Interpolator used to interpolate */
    private Interpolator interpolator;

    /**
     * @since 1.12
     */
    private RecursionInterceptor recursionInterceptor;

    /** replacement text from a token */
    private String replaceData = null;

    /** Index into replacement data */
    private int replaceIndex = -1;

    /** Index into previous data */
    private int previousIndex = -1;

    /** Default begin token. */
    public static final String DEFAULT_BEGIN_TOKEN = "${";

    /** Default end token. */
    public static final String DEFAULT_END_TOKEN = "}";

    /** true by default to preserve backward comp */
    private boolean interpolateWithPrefixPattern = true;

    private String escapeString;

    private boolean useEscape = false;

    /** if true escapeString will be preserved \{foo} -> \{foo} */
    private boolean preserveEscapeString = false;

    private LinkedHashSet delimiters = new LinkedHashSet();

    private DelimiterSpecification currentSpec;

```

```

private String beginToken;

private String originalBeginToken;

private String endToken;

/**
 * this constructor use default begin token ${ and default end token }
 * @param in reader to use
 * @param interpolator interpolator instance to use
 */
public MultiDelimiterInterpolatorFilterReader( Reader in, Interpolator interpolator )
{
    this( in, interpolator, new SimpleRecursionInterceptor() );
}

/**
 * @param in reader to use
 * @param interpolator interpolator instance to use
 * @param ri The { @link RecursionInterceptor } to use to prevent recursive expressions.
 * @since 1.12
 */
public MultiDelimiterInterpolatorFilterReader( Reader in, Interpolator interpolator, RecursionInterceptor ri )
{
    super( in );

    this.interpolator = interpolator;

    // always cache answers, since we'll be sending in pure expressions, not mixed text.
    this.interpolator.setCacheAnswers( true );

    recursionInterceptor = ri;

    delimiters.add( DelimiterSpecification.DEFAULT_SPEC );
}

public MultiDelimiterInterpolatorFilterReader addDelimiterSpec( String delimiterSpec )
{
    if ( delimiterSpec == null )
    {
        return this;
    }
    delimiters.add( DelimiterSpecification.parse( delimiterSpec ) );
    return this;
}

public boolean removeDelimiterSpec( String delimiterSpec )
{

```

```

    if ( delimiterSpec == null )
    {
        return false;
    }
    return delimiters.remove( DelimiterSpecification.parse( delimiterSpec ) );
}

public MultiDelimiterInterpolatorFilterReader setDelimiterSpecs( LinkedHashSet specs )
{
    delimiters.clear();
    for ( Iterator it = specs.iterator(); it.hasNext(); )
    {
        String spec = (String) it.next();
        if (spec == null)
        {
            continue;
        }
        delimiters.add( DelimiterSpecification.parse( spec ) );
    }

    return this;
}

/**
 * Skips characters. This method will block until some characters are available, an I/O error occurs, or the end of
 * the stream is reached.
 *
 * @param n The number of characters to skip
 * @return the number of characters actually skipped
 * @exception IllegalArgumentException If <code>n</code> is negative.
 * @exception IOException If an I/O error occurs
 */
public long skip( long n )
    throws IOException
{
    if ( n < 0L )
    {
        throw new IllegalArgumentException( "skip value is negative" );
    }

    for ( long i = 0; i < n; i++ )
    {
        if ( read() == -1 )
        {
            return i;
        }
    }
    return n;
}

```



```

}

/**
 * Reads characters into a portion of an array. This method will block until some input is available, an I/O error
 * occurs, or the end of the stream is reached.
 *
 * @param cbuf Destination buffer to write characters to. Must not be <code>null</code>.
 * @param off Offset at which to start storing characters.
 * @param len Maximum number of characters to read.
 * @return the number of characters read, or -1 if the end of the stream has been reached
 * @exception IOException If an I/O error occurs
 */
public int read( char cbuf[], int off, int len )
    throws IOException
{
    for ( int i = 0; i < len; i++ )
    {
        int ch = read();
        if ( ch == -1 )
        {
            if ( i == 0 )
            {
                return -1;
            }
            else
            {
                return i;
            }
        }
        cbuf[off + i] = (char) ch;
    }
    return len;
}

/**
 * Returns the next character in the filtered stream, replacing tokens from the original stream.
 *
 * @return the next character in the resulting stream, or -1 if the end of the resulting stream has been reached
 * @exception IOException if the underlying stream throws an IOException during reading
 */
public int read()
    throws IOException
{
    if ( replaceIndex != -1 && replaceIndex < replaceData.length() )
    {
        int ch = replaceData.charAt( replaceIndex++ );
        if ( replaceIndex >= replaceData.length() )
        {

```

```

        replaceIndex = -1;
    }
    return ch;
}

int ch = -1;
if ( previousIndex != -1 && previousIndex < this.endToken.length() )
{
    ch = this.endToken.charAt( previousIndex++ );
}
else
{
    ch = in.read();
}

boolean inEscape = false;

if ( ( inEscape = ( useEscape && ch == escapeString.charAt( 0 ) ) || reselectDelimiterSpec( ch ) ) )
{
    StringBuffer key = new StringBuffer();

    key.append( (char) ch );

    // this will happen when we're using an escape string, and ONLY then.
    boolean atEnd = false;

    if ( inEscape )
    {
        for( int i = 0; i < escapeString.length() - 1; i++ )
        {
            ch = in.read();
            if ( ch == -1 )
            {
                atEnd = true;
                break;
            }

            key.append( (char) ch );
        }

        if ( !atEnd )
        {
            ch = in.read();
            if ( !reselectDelimiterSpec( ch ) )
            {
                replaceData = key.toString();
                replaceIndex = 1;
                return replaceData.charAt( 0 );
            }
        }
    }
}

```

```

    }
    else
    {
        key.append( (char) ch );
    }
}

int beginTokenMatchPos = 1;
do
{
    if ( atEnd )
    {
        // didn't finish reading the escape string.
        break;
    }

    if ( previousIndex != -1 && previousIndex < this.endToken.length() )
    {
        ch = this.endToken.charAt( previousIndex++ );
    }
    else
    {
        ch = in.read();
    }
    if ( ch != -1 )
    {
        key.append( (char) ch );
        if ( ( beginTokenMatchPos < this.originalBeginToken.length() )
            && ( ch != this.originalBeginToken.charAt( beginTokenMatchPos ) ) )
        {
            ch = -1; // not really EOF but to trigger code below
            break;
        }
    }
    else
    {
        break;
    }

    beginTokenMatchPos++;
}
while ( ch != this.endToken.charAt( 0 ) );

// now test endToken
if ( ch != -1 && this.endToken.length() > 1 )
{
    int endTokenMatchPos = 1;

```

```

do
{
    if ( previousIndex != -1 && previousIndex < this.endToken.length() )
    {
        ch = this.endToken.charAt( previousIndex++ );
    }
    else
    {
        ch = in.read();
    }

    if ( ch != -1 )
    {
        key.append( (char) ch );

        if ( ch != this.endToken.charAt( endTokenMatchPos++ ) )
        {
            ch = -1; // not really EOF but to trigger code below
            break;
        }

    }
    else
    {
        break;
    }
}
while ( endTokenMatchPos < this.endToken.length() );
}

// There is nothing left to read so we have the situation where the begin/end token
// are in fact the same and as there is nothing left to read we have got ourselves
// end of a token boundary so let it pass through.
if ( ch == -1 )
{
    replaceData = key.toString();
    replaceIndex = 1;
    return replaceData.charAt( 0 );
}

String value = null;
try
{
    boolean escapeFound = false;
    if ( useEscape )
    {
        if ( key.toString().startsWith( beginToken ) )

```

```

    {
        String keyStr = key.toString();
        if ( !preserveEscapeString )
        {
            value = keyStr.substring( escapeString.length(), keyStr.length() );
        }
        else
        {
            value = keyStr;
        }
        escapeFound = true;
    }
}
if ( !escapeFound )
{
    if ( interpolateWithPrefixPattern )
    {
        value = interpolator.interpolate( key.toString(), "", recursionInterceptor );
    }
    else
    {
        value = interpolator.interpolate( key.toString(), recursionInterceptor );
    }
}
}
catch ( InterpolationException e )
{
    IllegalArgumentException error = new IllegalArgumentException( e.getMessage() );
    error.initCause( e );

    throw error;
}

if ( value != null )
{
    if ( value.length() != 0 )
    {
        replaceData = value;
        replaceIndex = 0;
    }
    return read();
}
else
{
    previousIndex = 0;
    replaceData = key.substring( 0, key.length() - this.endToken.length() );
    replaceIndex = 0;
    return this.beginToken.charAt( 0 );
}

```

```

    }
}

return ch;
}

private boolean reselectDelimiterSpec( int ch )
{
    for ( Iterator it = delimiters.iterator(); it.hasNext(); )
    {
        DelimiterSpecification spec = (DelimiterSpecification) it.next();
        if ( ch == spec.getBegin().charAt( 0 ) )
        {
            currentSpec = spec;
            originalBeginToken = currentSpec.getBegin();
            beginToken = useEscape ? escapeString + originalBeginToken : originalBeginToken;
            endToken = currentSpec.getEnd();

            return true;
        }
    }

    return false;
}

public boolean interpolateWithPrefixPattern()
{
    return interpolateWithPrefixPattern;
}

public void setInterpolateWithPrefixPattern( boolean interpolateWithPrefixPattern )
{
    this.interpolateWithPrefixPattern = interpolateWithPrefixPattern;
}

public String getEscapeString()
{
    return escapeString;
}

public void setEscapeString( String escapeString )
{
    // TODO NPE if escapeString is null ?
    if ( escapeString != null && escapeString.length() >= 1 )
    {
        this.escapeString = escapeString;
        this.useEscape = escapeString != null && escapeString.length() >= 1;
    }
}
}

```

```

public boolean isPreserveEscapeString()
{
    return preserveEscapeString;
}

public void setPreserveEscapeString( boolean preserveEscapeString )
{
    this.preserveEscapeString = preserveEscapeString;
}

public RecursionInterceptor getRecursionInterceptor()
{
    return recursionInterceptor;
}

public MultiDelimiterInterpolatorFilterReader setRecursionInterceptor( RecursionInterceptor recursionInterceptor
)
{
    this.recursionInterceptor = recursionInterceptor;
    return this;
}
}
package org.codehaus.plexus.interpolation.multi;

/*
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 */

import org.codehaus.plexus.interpolation.InterpolationCycleException;
import org.codehaus.plexus.interpolation.InterpolationException;
import org.codehaus.plexus.interpolation.InterpolationPostProcessor;
import org.codehaus.plexus.interpolation.Interpolator;
import org.codehaus.plexus.interpolation.RecursionInterceptor;
import org.codehaus.plexus.interpolation.SimpleRecursionInterceptor;
import org.codehaus.plexus.interpolation.ValueSource;

```

```

import java.util.ArrayList;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;

public class MultiDelimiterStringSearchInterpolator
    implements Interpolator
{

    private static final int MAX_TRIES = 10;

    private Map existingAnswers = new HashMap();

    private List valueSources = new ArrayList();

    private List postProcessors = new ArrayList();

    private boolean cacheAnswers = false;

    private LinkedHashSet delimiters = new LinkedHashSet();

    private String escapeString;

    public MultiDelimiterStringSearchInterpolator()
    {
        delimiters.add( DelimiterSpecification.DEFAULT_SPEC );
    }

    public MultiDelimiterStringSearchInterpolator addDelimiterSpec( String delimiterSpec )
    {
        {
            if ( delimiterSpec == null )
            {
                return this;
            }
            delimiters.add( DelimiterSpecification.parse( delimiterSpec ) );
            return this;
        }
    }

    public boolean removeDelimiterSpec( String delimiterSpec )
    {
        {
            if ( delimiterSpec == null )
            {
                return false;
            }
        }
    }
}

```



```

    }
    return delimiters.remove( DelimiterSpecification.parse( delimiterSpec ) );
}

public MultiDelimiterStringSearchInterpolator withValueSource( ValueSource vs )
{
    addValueSource( vs );
    return this;
}

public MultiDelimiterStringSearchInterpolator withPostProcessor( InterpolationPostProcessor postProcessor )
{
    addPostProcessor( postProcessor );
    return this;
}

/**
 * {@inheritDoc}
 */
public void addValueSource( ValueSource valueSource )
{
    valueSources.add( valueSource );
}

/**
 * {@inheritDoc}
 */
public void removeValueSource( ValueSource valueSource )
{
    valueSources.remove( valueSource );
}

/**
 * {@inheritDoc}
 */
public void addPostProcessor( InterpolationPostProcessor postProcessor )
{
    postProcessors.add( postProcessor );
}

/**
 * {@inheritDoc}
 */
public void removePostProcessor( InterpolationPostProcessor postProcessor )
{
    postProcessors.remove( postProcessor );
}

```

```

public String interpolate( String input, String thisPrefixPattern )
    throws InterpolationException
{
    return interpolate( input, new SimpleRecursionInterceptor() );
}

public String interpolate( String input, String thisPrefixPattern, RecursionInterceptor recursionInterceptor )
    throws InterpolationException
{
    return interpolate( input, recursionInterceptor );
}

public String interpolate( String input )
    throws InterpolationException
{
    return interpolate( input, new SimpleRecursionInterceptor() );
}

/**
 * Entry point for recursive resolution of an expression and all of its nested expressions.
 *
 * @todo Ensure unresolvable expressions don't trigger infinite recursion.
 */
public String interpolate( String input, RecursionInterceptor recursionInterceptor )
    throws InterpolationException
{
    try
    {
        return interpolate( input, recursionInterceptor, new HashSet() );
    }
    finally
    {
        if ( !cacheAnswers )
        {
            existingAnswers.clear();
        }
    }
}

private String interpolate( String input, RecursionInterceptor recursionInterceptor, Set unresolvable )
    throws InterpolationException
{
    if ( input == null )
    {
        // return empty String to prevent NPE too
        return "";
    }
    StringBuffer result = new StringBuffer( input.length() * 2 );

```

```

String lastResult = input;
int tries = 0;
do
{
    tries++;
    if ( result.length() > 0 )
    {
        lastResult = result.toString();
        result.setLength( 0 );
    }

    int startIdx = -1;
    int endIdx = -1;

    DelimiterSpecification selectedSpec = null;
    while( ( selectedSpec = select( input, endIdx ) ) != null )
    {
        String startExpr = selectedSpec.getBegin();
        String endExpr = selectedSpec.getEnd();

        startIdx = selectedSpec.getNextStartIndex();
        result.append( input.substring( endIdx + 1, startIdx ) );

        endIdx = input.indexOf( endExpr, startIdx + 1 );
        if ( endIdx < 0 )
        {
            break;
        }

        String wholeExpr = input.substring( startIdx, endIdx + endExpr.length() );
        String realExpr = wholeExpr.substring( startExpr.length(), wholeExpr.length() - endExpr.length() );

        if ( startIdx >= 0 && escapeString != null && escapeString.length() > 0 )
        {
            int startEscapeIdx = startIdx == 0 ? 0 : startIdx - escapeString.length();
            if ( startEscapeIdx >= 0 )
            {
                String escape = input.substring( startEscapeIdx, startIdx );
                if ( escape != null && escapeString.equals( escape ) )
                {
                    result.append( wholeExpr );
                    result.replace( startEscapeIdx, startEscapeIdx + escapeString.length(), "" );
                    continue;
                }
            }
        }
    }
}

```

```

boolean resolved = false;
if ( !unresolvable.contains( wholeExpr ) )
{
    if ( realExpr.startsWith( "." ) )
    {
        realExpr = realExpr.substring( 1 );
    }

    if ( recursionInterceptor.hasRecursiveExpression( realExpr ) )
    {
        throw new InterpolationCycleException( recursionInterceptor, realExpr, wholeExpr );
    }

    recursionInterceptor.expressionResolutionStarted( realExpr );

    Object value = existingAnswers.get( realExpr );
    Object bestAnswer = null;
    for ( Iterator it = valueSources.iterator(); it.hasNext() && value == null; )
    {
        ValueSource vs = (ValueSource) it.next();

        value = vs.getValue( realExpr );

        if ( value != null && value.toString().indexOf( wholeExpr ) > -1 )
        {
            bestAnswer = value;
            value = null;
        }
    }

    // this is the simplest recursion check to catch exact recursion
    // (non synonym), and avoid the extra effort of more string
    // searching.
    if ( value == null && bestAnswer != null )
    {
        throw new InterpolationCycleException( recursionInterceptor, realExpr, wholeExpr );
    }

    if ( value != null )
    {
        value = interpolate( String.valueOf( value ), recursionInterceptor, unresolvable );

        if ( postProcessors != null && !postProcessors.isEmpty() )
        {
            for ( Iterator it = postProcessors.iterator(); it.hasNext(); )
            {
                InterpolationPostProcessor postProcessor = (InterpolationPostProcessor) it.next();
                Object newVal = postProcessor.execute( realExpr, value );
            }
        }
    }
}

```

```

        if ( newVal != null )
        {
            value = newVal;
            break;
        }
    }
}

// could use:
// result = matcher.replaceFirst( stringValue );
// but this could result in multiple lookups of stringValue, and replaceAll is not correct behaviour
result.append( String.valueOf( value ) );
resolved = true;
}
else
{
    unresolvable.add( wholeExpr );
}

recursionInterceptor.expressionResolutionFinished( realExpr );
}

if ( !resolved )
{
    result.append( wholeExpr );
}

if ( endIdx > -1 )
{
    endIdx += endExpr.length() - 1;
}
}

if ( endIdx == -1 && startIdx > -1 )
{
    result.append( input.substring( startIdx, input.length() ) );
}
else if ( endIdx < input.length() )
{
    result.append( input.substring( endIdx + 1, input.length() ) );
}
}
while( !lastResult.equals( result.toString() ) && tries < MAX_TRIES );

return result.toString();
}

private DelimiterSpecification select( String input, int lastEndIdx )

```

```

{
    DelimiterSpecification selected = null;

    for ( Iterator it = delimiters.iterator(); it.hasNext(); )
    {
        DelimiterSpecification spec = (DelimiterSpecification) it.next();
        spec.clearNextStart();

        if ( selected == null )
        {
            int idx = input.indexOf( spec.getBegin(), lastEndIdx + 1 );
            if ( idx > -1 )
            {
                spec.setNextStartIndex( idx );
                selected = spec;
            }
        }
    }

    return selected;
}

/**
 * Return any feedback messages and errors that were generated - but suppressed - during the interpolation
process.
 * Since unresolvable expressions will be left in the source string as-is, this feedback is optional, and will only
 * be useful for debugging interpolation problems.
 *
 * @return a {@link List} that may be interspersed with {@link String} and {@link Throwable} instances.
 */
public List getFeedback()
{
    List messages = new ArrayList();
    for ( Iterator it = valueSources.iterator(); it.hasNext(); )
    {
        ValueSource vs = (ValueSource) it.next();
        List feedback = vs.getFeedback();
        if ( feedback != null && !feedback.isEmpty() )
        {
            messages.addAll( feedback );
        }
    }

    return messages;
}

/**
 * Clear the feedback messages from previous interpolate(..) calls.

```

```

*/
public void clearFeedback()
{
    for ( Iterator it = valueSources.iterator(); it.hasNext(); )
    {
        ValueSource vs = (ValueSource) it.next();
        vs.clearFeedback();
    }
}

public boolean isCacheAnswers()
{
    return cacheAnswers;
}

public void setCacheAnswers( boolean cacheAnswers )
{
    this.cacheAnswers = cacheAnswers;
}

public void clearAnswers()
{
    existingAnswers.clear();
}

public String getEscapeString()
{
    return escapeString;
}

public void setEscapeString( String escapeString )
{
    this.escapeString = escapeString;
}

public MultiDelimiterStringSearchInterpolator setDelimiterSpecs( LinkedHashSet specs )
{
    delimiters.clear();
    for ( Iterator it = specs.iterator(); it.hasNext(); )
    {
        String spec = (String) it.next();
        if ( spec == null )
        {
            continue;
        }
        delimiters.add( DelimiterSpecification.parse( spec ) );
    }
}

```

```

    return this;
}

}

package org.codehaus.plexus.interpolation;

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 */

import java.util.Collections;
import java.util.List;
import java.util.Stack;

/**
 * Simplest implementation of a {@link RecursionInterceptor}, which checks whether
 * the existing interpolation effort is already attempting to resolve an exact
 * expression, but has not finished. This will not catch synonym expressions, as
 * are found in Maven ({project.build.directory}), {pom.build.directory}, and
 * {build.directory} are synonyms).
 *
 * @author jdcasey
 * @version $Id: SimpleRecursionInterceptor.java 7529 2008-07-20 20:24:21Z olamy $
 */
public class SimpleRecursionInterceptor
    implements RecursionInterceptor
{

    private Stack expressions = new Stack();

    /**
     * {@inheritDoc}
     */
    public void expressionResolutionFinished( String expression )
    {
        expressions.pop();
    }

```



```

    }

    /**
     * {@inheritDoc}
     */
    public void expressionResolutionStarted( String expression )
    {
        expressions.push( expression );
    }

    /**
     * Check whether the current expression is already present in the in-process
     * stack.
     */
    public boolean hasRecursiveExpression( String expression )
    {
        return expressions.contains( expression );
    }

    /**
     * When an expression is determined to be a recursive reference, this method
     * returns the sublist of tracked expressions that participate in this cycle.
     * Otherwise, if the expression isn't present in the in-process stack, return
     * {@link Collections#EMPTY_LIST}.
     */
    public List getExpressionCycle( String expression )
    {
        int idx = expressions.indexOf( expression );
        if ( idx < 0 )
        {
            return Collections.EMPTY_LIST;
        }
        else
        {
            return expressions.subList( idx, expressions.size() );
        }
    }
}

```

## 8.220 plexus-sec-dispatcher 1.3

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```

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## 8.221 plexus-slf4j-logging 1.1

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## 8.230 sample-toaster-consumer 1.1.1-Helium-SR1

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```
/*! jQuery UI - v1.9.0 - 2012-10-05
```

```
* http://jqueryui.com
```

```
* Includes: jquery.ui.core.js, jquery.ui.widget.js, jquery.ui.mouse.js, jquery.ui.position.js, jquery.ui.accordion.js, jquery.ui.autocomplete.js, jquery.ui.button.js, jquery.ui.datepicker.js, jquery.ui.dialog.js, jquery.ui.draggable.js, jquery.ui.droppable.js, jquery.ui.effect.js, jquery.ui.effect-blind.js, jquery.ui.effect-bounce.js, jquery.ui.effect-clip.js, jquery.ui.effect-drop.js, jquery.ui.effect-explode.js, jquery.ui.effect-fade.js, jquery.ui.effect-fold.js, jquery.ui.effect-highlight.js, jquery.ui.effect-pulsate.js, jquery.ui.effect-scale.js, jquery.ui.effect-shake.js, jquery.ui.effect-slide.js, jquery.ui.effect-transfer.js, jquery.ui.menu.js, jquery.ui.progressbar.js, jquery.ui.resizable.js, jquery.ui.selectable.js, jquery.ui.slider.js, jquery.ui.sortable.js, jquery.ui.spinner.js, jquery.ui.tabs.js, jquery.ui.tooltip.js
```

```
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/*! jQuery v1.8.2 jquery.com | jquery.org/license */
```

```
/**
```

```
* @preserve jquery.layout 1.3.0 - Release Candidate 30.62
```

```
* $Date: 2012-08-04 08:00:00 (Thu, 23 Aug 2012) $
```

```
* $Rev: 303006 $
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*
* Changelog: http://layout.jquery-dev.net/changelog.cfm#1.3.0.rc30.62
* NOTE: This is a short-term release to patch a couple of bugs.
* These bugs are listed as officially fixed in RC30.7, which will be released shortly.
*
* Docs: http://layout.jquery-dev.net/documentation.html
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*/
/**
* jquery.layout.state 1.0
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* @dependancies: UI Layout 1.3.0.rc30.1 or higher
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*/
/**
* jquery.layout.browserZoom 1.0
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*/
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// +-----and; \\
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*
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*
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*
* Launch : November 2008
* Date: ${date}
* Revision: ${revision}
*/
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*/
// -----
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//
// -----

```

# 8.233 scala-library 10.2.4

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/\*! jQuery UI - v1.9.0 - 2012-10-05

\* <http://jqueryui.com>

\* Includes: jquery.ui.core.js, jquery.ui.widget.js, jquery.ui.mouse.js, jquery.ui.position.js, jquery.ui.accordion.js, jquery.ui.autocomplete.js, jquery.ui.button.js, jquery.ui.datepicker.js, jquery.ui.dialog.js, jquery.ui.draggable.js, jquery.ui.droppable.js, jquery.ui.effect.js, jquery.ui.effect-blind.js, jquery.ui.effect-bounce.js, jquery.ui.effect-clip.js, jquery.ui.effect-drop.js, jquery.ui.effect-explode.js, jquery.ui.effect-fade.js, jquery.ui.effect-fold.js, jquery.ui.effect-highlight.js, jquery.ui.effect-pulsate.js, jquery.ui.effect-scale.js, jquery.ui.effect-shake.js, jquery.ui.effect-slide.js, jquery.ui.effect-transfer.js, jquery.ui.menu.js, jquery.ui.progressbar.js, jquery.ui.resizable.js, jquery.ui.selectable.js,

```

jquery.ui.slider.js, jquery.ui.sortable.js, jquery.ui.spinner.js, jquery.ui.tabs.js, jquery.ui.tooltip.js
* Copyright (c) 2012 jQuery Foundation and other contributors Licensed MIT */
/*! jQuery v1.8.2 jquery.com | jquery.org/license */
/**
 * @preserve jquery.layout 1.3.0 - Release Candidate 30.62
 * $Date: 2012-08-04 08:00:00 (Thu, 23 Aug 2012) $
 * $Rev: 303006 $
 *
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 *
 * Changelog: http://layout.jquery-dev.net/changelog.cfm#1.3.0.rc30.62
 * NOTE: This is a short-term release to patch a couple of bugs.
 * These bugs are listed as officially fixed in RC30.7, which will be released shortly.
 *
 * Docs: http://layout.jquery-dev.net/documentation.html
 * Tips: http://layout.jquery-dev.net/tips.html
 * Help: http://groups.google.com/group/jquery-ui-layout
 */
/**
 * jquery.layout.state 1.0
 * $Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) $
 *
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 *
 * @dependancies: UI Layout 1.3.0.rc30.1 or higher
 * @dependancies: $.ui.cookie (above)
 *
 * @support: http://groups.google.com/group/jquery-ui-layout
 */
/**
 * jquery.layout.buttons 1.0
 * $Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) $
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```

* @dependancies: UI Layout 1.3.0.rc30.1 or higher
*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* Docs: [ to come ]
* Tips: [ to come ]
*/
/**
* jquery.layout.browserZoom 1.0
* $Date: 2011-12-29 08:00:00 (Thu, 29 Dec 2011) $
*
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*
* @dependancies: UI Layout 1.3.0.rc30.1 or higher
*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* @todo: Extend logic to handle other problematic zooming in browsers
* @todo: Add hotkey/mousewheel bindings to _instantly_ respond to these zoom event
*/
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```

```

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```

## 8.234 selenium-api 2.35.0

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```

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```
*/
```

```
package org.openqa.selenium.html5;
```

```
public interface ApplicationCache {
/**
 * The current state of the application cache.
 *
 * @return { @link AppCacheStatus}
 */
AppCacheStatus getStatus();
}
/*
```

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```
*/
```

```
package org.openqa.selenium.interactions.touch;
```

```
import org.openqa.selenium.interactions.Action;
import org.openqa.selenium.interactions.TouchScreen;
import org.openqa.selenium.interactions.internal.TouchAction;
import org.openqa.selenium.internal.Locatable;
```

```
/**
```

```
 * Creates a flick gesture.
```

```
*/
```

```
public class FlickAction extends TouchAction implements Action {
```

```
    private int xOffset;
    private int yOffset;
    private int speed;
    private int xSpeed;
    private int ySpeed;
```

```
    public static final int SPEED_NORMAL = 0;
    public static final int SPEED_FAST = 1;
```

```
    public FlickAction(TouchScreen touchScreen, Locatable locationProvider, int x, int y, int speed) {
        super(touchScreen, locationProvider);
        xOffset = x;
        yOffset = y;
        this.speed = speed;
    }
```

```
    public FlickAction(TouchScreen touchScreen, int xSpeed, int ySpeed) {
        super(touchScreen, null);
        this.xSpeed = xSpeed;
        this.ySpeed = ySpeed;
    }
```

```
    public void perform() {
        if (where != null) {
```

```
        touchScreen.flick(getActionLocation(), xOffset, yOffset, speed);
    } else {
        touchScreen.flick(xSpeed, ySpeed);
    }
}
```

```
}
```

```
/*
```

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```
*/
```

```
package org.openqa.selenium.interactions;
```

```
import org.openqa.selenium.interactions.internal.MouseAction;
```

```
import org.openqa.selenium.internal.Locatable;
```

```
/**
```

```
 * clicks an element.
```

```
 *
```

```
*/
```

```
public class ClickAction extends MouseAction implements Action {
    public ClickAction(Mouse mouse, Locatable locationProvider) {
        super(mouse, locationProvider);
    }
}
```

```
public void perform() {
    moveToLocation();
    mouse.click(getActionLocation());
}
}
```

```
/*
```

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\*/

```
package org.openqa.selenium.interactions;
```

```
import org.openqa.selenium.interactions.internal.MouseAction;
```

```
import org.openqa.selenium.internal.Locatable;
```

```
/**
```

```
 * Presses the left mouse button without releasing it.
```

```
 *
```

```
*/
```

```
public class ClickAndHoldAction extends MouseAction implements Action {  
    public ClickAndHoldAction(Mouse mouse, Locatable locationProvider) {  
        super(mouse, locationProvider);  
    }  
}
```

```
/**
```

```
 * Holds down the mouse button on a selected element. If this action is called out of sequence
```

```
 * (i.e. twice in a row, without releasing the button after the first action) the results will be
```

```
 * different between browsers.
```

```
*/
```

```
public void perform() {  
    moveToLocation();  
    mouse.mouseDown(getActionLocation());  
}
```

```
}
```

```
/*
```

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```

*/

package org.openqa.selenium.interactions;

import org.openqa.selenium.interactions.internal.MouseAction;
import org.openqa.selenium.internal.Locatable;

/**
 * Context-clicks an element
 *
 */
public class ContextClickAction extends MouseAction implements Action {
    public ContextClickAction(Mouse mouse, Locatable where) {
        super(mouse, where);
    }

    /**
     * Emulates clicking on the mouse button that would bring up contextual menus (usually
     * right-clicking).
     */
    public void perform() {
        moveToLocation();
        mouse.contextClick(getActionLocation());
    }

}

/*
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```

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```

*/

package org.openqa.selenium.interactions;

import org.openqa.selenium.interactions.internal.MouseAction;
import org.openqa.selenium.internal.Locatable;

/**

```

```

* Double-clicks an element.
*
*/
public class DoubleClickAction extends MouseAction implements Action {
public DoubleClickAction(Mouse mouse, Locatable locationProvider) {
    super(mouse, locationProvider);
}

/**
* Double-clicks on the given element.
*/
public void perform() {
    moveToLocation();
    mouse.doubleClick(getActionLocation());
}
}

```

## 8.235 servicemix-bundles-josql 1.5\_5

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## 8.237 sisu-inject-bean 2.2.3

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```
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```

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```
****/
```

```
package org.sonatype.guice.bean.locators;
```

```
import org.sonatype.guice.bean.reflect.DeferredProvider;
```

```
import com.google.inject.Provider;  
import com.google.inject.spi.BindingTargetVisitor;  
import com.google.inject.spi.ConstructorBinding;  
import com.google.inject.spi.DefaultBindingTargetVisitor;  
import com.google.inject.spi.ExposedBinding;  
import com.google.inject.spi.InstanceBinding;  
import com.google.inject.spi.LinkedKeyBinding;  
import com.google.inject.spi.ProviderInstanceBinding;  
import com.google.inject.spi.UntargettedBinding;
```

```
/**
```

- \* {@link BindingTargetVisitor} that attempts to discover implementations behind bindings.

```
*/  
final class ImplementationVisitor  
    extends DefaultBindingTargetVisitor<Object, Class<?>>  
{  
    // -----  
    // Constants
```



```

// -----

static final ImplementationVisitor THIS = new ImplementationVisitor();

// -----
// Public methods
// -----

@Override
public Class<?> visit( final UntargettedBinding<?> binding )
{
    return binding.getKey().getTypeLiteral().getRawType();
}

@Override
public Class<?> visit( final LinkedKeyBinding<?> binding )
{
    // this assumes only one level of indirection: api-->impl
    return binding.getLinkedKey().getTypeLiteral().getRawType();
}

@Override
public Class<?> visit( final ConstructorBinding<?> binding )
{
    return binding.getConstructor().getDeclaringType().getRawType();
}

@Override
public Class<?> visit( final InstanceBinding<?> binding )
{
    return binding.getInstance().getClass();
}

@Override
public Class<?> visit( final ProviderInstanceBinding<?> binding )
{
    final Provider<?> provider = binding.getProviderInstance();
    if ( provider instanceof DeferredProvider<?> )
    {
        try
        {
            // deferred providers let us peek at the underlying implementation type
            return ( (DeferredProvider<?>) provider ).getImplementationClass().load();
        }
        catch ( final TypeNotPresentException e ) // NOPMD
        {
            // fall-through
        }
    }
}

```

```

    }
    return null;
}

@Override
public Class<?> visit( final ExposedBinding<?> binding )
{
    return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}
}
}
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*****/
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

import javax.inject.Qualifier;

/**
 * { @link Qualifier } used to record and tag implicit bindings (not for direct use).
 */
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = { } )
public @interface Implicit
{
}
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*****/

```

```

*****/
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;

import org.sonatype.guice.bean.reflect.Logs;

import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes @{ @link ImplementedBy}, @{ @link ProvidedBy}, and concrete types.
 */
final class ImplicitBindings
{
    // -----
    // Implementation fields
    // -----

    private final Iterable<Injector> injectors;

    // -----
    // Constructors
    // -----

    ImplicitBindings( final BeanLocator locator )
    {
        injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
    }

    // -----
    // Public methods
    // -----

    @SuppressWarnings( { "unchecked", "rawtypes" } )
    public <T> Binding<T> get( final TypeLiteral<T> type )
    {
        final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
        for ( final Injector i : injectors )
        {
            try
            {
                // first round: check for any re-written implicit bindings
                final Binding binding = i.getBindings().get( implicitKey );
            }
        }
    }
}

```

```

    if ( null != binding )
    {
        Logs.debug( "Using implicit binding: {} from: <>", binding, i );
        return binding;
    }
}
catch ( final Throwable e )
{
    continue; // no luck, move onto next injector
}
}

final Key justInTimeKey = Key.get( type );
for ( final Injector i : injectors )
{
    try
    {
        // second round: fall back to just-in-time lookup
        final Binding binding = i.getBinding( justInTimeKey );
        if ( InjectorPublisher.isVisible( binding ) )
        {
            Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
            return binding;
        }
    }
    catch ( final Throwable e )
    {
        continue; // no luck, move onto next injector
    }
}
return null;
}
}

```

## 8.238 SLF4J API Module 1.7.5

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```

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# 8.242 Spring framework 3.2.3 :REL

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## 8.245 stax2-api 3.1.1

### 8.245.1 Available under license :

```
/* Woodstox XML processor
*
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```



```

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*/

package org.codehaus.stax2.ri;

import java.util.NoSuchElementException;

import javax.xml.stream.*;
import javax.xml.stream.events.*;
import javax.xml.stream.util.XMLEventAllocator;

import org.codehaus.stax2.XMLEventReader2;
import org.codehaus.stax2.XMLStreamReader2;

/**
 * Almost complete implementation of { @link XMLEventReader2 }, built on top of
 * a generic { @link XMLStreamReader } implementation (using aggregation).
 * Designed to be used by concrete Stax2 implementations to provide
 * full Event API implementation with minimal effort.
 * <p>
 * Since there is not much to optimize at this
 * level (API and underlying stream reader pretty much define functionality
 * and optimizations that can be done), implementation is fairly straight
 * forward, with not many surprises.
 * <p>
 * Implementation notes: the trickiest things to implement are:
 * <ul>
 * <li>Peek() functionality! Geez, why did that have to be part of StAX
 * specs???!
 * </li>
 * <li>Adding START_DOCUMENT event that cursor API does not return
 * explicitly.
 * </li>
 * </ul>
 */
public abstract class Stax2EventReaderImpl
    implements XMLEventReader2,
               XMLStreamConstants
{
    // // // Enumerated state ids

    protected final static int STATE_INITIAL = 1;
    protected final static int STATE_END_OF_INPUT = 2;
    protected final static int STATE_CONTENT = 3;

    // // // Enumerated error case ids

```

```

/**
 * Current state when getElementText() called not START_ELEMENT
 */
protected final static int ERR_GETELEMTEXT_NOT_START_ELEM = 1;

/**
 * Encountered non-textual event (other than closing END_ELEMENT)
 * when collecting text for getElementText()
 */
protected final static int ERR_GETELEMTEXT_NON_TEXT_EVENT = 2;

/**
 * Encountered CHARACTERS or CDATA that contains non-white space
 * char(s), when trying to locate tag with nextTag()
 */
protected final static int ERR_NEXTTAG_NON_WS_TEXT = 3;

/**
 * Encountered non-skippable non-text/element event with
 * nextTag()
 */
protected final static int ERR_NEXTTAG_WRONG_TYPE = 4;

/*
 ////////////////////////////////////////////////////
 // Configuration
 ////////////////////////////////////////////////////
 */

protected final XMLEventAllocator mAllocator;

protected final XMLStreamReader2 mReader;

/*
 ////////////////////////////////////////////////////
 // State
 ////////////////////////////////////////////////////
 */

/**
 * Event that has been peeked, ie. loaded without call to
 * {@link #nextEvent}; will be returned and cleared by
 * call to {@link #nextEvent} (or, returned again if peeked
 * again)
 */
private XMLEvent mPeekedEvent = null;

/**

```

```

* High-level state indicator, with currently three values:
* whether we are initializing (need to synthesize START_DOCUMENT),
* at END_OF_INPUT (end-of-doc), or otherwise, normal operation.
* Useful in simplifying some methods, as well as to make sure
* that independent of how stream reader handles things, event reader
* can reliably detect End-Of-Document.
*/
protected int mState = STATE_INITIAL;

/**
* This variable keeps track of the type of the 'previous' event
* when peeking for the next Event. It is needed for some functionality,
* to remember state even when underlying parser has to move to peek
* the next event.
*/
protected int mPrePeekEvent = START_DOCUMENT;

/*
////////////////////////////////////
// Construction
////////////////////////////////////
*/

protected Stax2EventReaderImpl(XMLEventAllocator a, XMLStreamReader2 r)
{
    mAllocator = a;
    mReader = r;
}

/*
////////////////////////////////////
// Abstract methods sub-classes have to implement
////////////////////////////////////
*/

public abstract boolean isPropertySupported(String name);

public abstract boolean setProperty(String name, Object value);

/**
* Method called upon encountering a problem that should result
* in an exception being thrown. If non-null String is returned.
* that will be used as the message of exception thrown; if null,
* a standard message will be used instead.
*
* @param errorType Type of the problem, one of <code>ERR_</code>
* constants
* @param eventType Type of the event that triggered the problem,

```

```

*   if any; -1 if not available.
*/
protected abstract String getErrorDesc(int errorType, int eventType);

/*
////////////////////////////////////
// XMLEventReader API
////////////////////////////////////
*/

public void close()
    throws XMLStreamException
{
    mReader.close();
}

public String getElementText()
    throws XMLStreamException
{
    /* Simple, if no peeking occurred: can just forward this to the
    * underlying parser
    */
    if (mPeekedEvent == null) {
        return mReader.getElementText();
    }

    XMLEvent evt = mPeekedEvent;
    mPeekedEvent = null;

    /* Otherwise need to verify that we are currently over START_ELEMENT.
    * Problem is we have already went past it...
    */
    if (mPrePeekEvent != START_ELEMENT) {
        reportProblem(findErrorDesc(ERR_GETELEMTEXT_NOT_START_ELEM, mPrePeekEvent));
    }
    // ??? do we need to update mPrePeekEvent now

    String str = null;
    StringBuffer sb = null;

    /* Ok, fine, then just need to loop through and get all the
    * text...
    */
    for (; true; evt = nextEvent()) {
        if (evt.isEndElement()) {
            break;
        }
        int type = evt.getEventType();

```

```

if (type == COMMENT || type == PROCESSING_INSTRUCTION) {
    // can/should just ignore them
    continue;
}
if (!evt.isCharacters()) {
    reportProblem(findErrorDesc(ERR_GETELEMTEXT_NON_TEXT_EVENT, type));
}
String curr = evt.asCharacters().getData();
if (str == null) {
    str = curr;
} else {
    if (sb == null) {
        sb = new StringBuffer(str.length() + curr.length());
        sb.append(str);
    }
    sb.append(curr);
}
}

if (sb != null) {
    return sb.toString();
}
return (str == null) ? "" : str;
}

public Object getProperty(String name) {
    return mReader.getProperty(name);
}

public boolean hasNext() {
    return (mState != STATE_END_OF_INPUT);
}

public XMLEvent nextEvent()
    throws XMLStreamException
{
    if (mState == STATE_END_OF_INPUT) {
        throwEndOfInput();
    } else if (mState == STATE_INITIAL) {
        mState = STATE_CONTENT;
        return createStartDocumentEvent();
    }
    if (mPeekedEvent != null) {
        XMLEvent evt = mPeekedEvent;
        mPeekedEvent = null;
        if (evt.isEndDocument()) {
            mState = STATE_END_OF_INPUT;
        }
    }
}

```

```

        return evt;
    }
    return createNextEvent(true, mReader.next());
}

public Object next() {
    try {
        return nextEvent();
    } catch (XMLStreamException sex) {
        throwUnchecked(sex);
        return null;
    }
}

public XMLEvent nextTag()
    throws XMLStreamException
{
    // If we have peeked something, need to process it
    if (mPeekedEvent != null) {
        XMLEvent evt = mPeekedEvent;
        mPeekedEvent = null;
        int type = evt.getEventType();
        switch (type) {
            case END_DOCUMENT:
                return null;
            case START_DOCUMENT:
                // Need to skip START_DOCUMENT to get the root elem
                break;
            case SPACE:
                // Ignorable WS is just fine
                break;

            /* !!! 07-Dec-2004, TSa: Specs are mum about Comments and PIs.
             * But why would they not be skipped just like what
             * the stream reader does?
             */
            case COMMENT:
            case PROCESSING_INSTRUCTION:
                break;
            case CDATA:
            case CHARACTERS:
                if (((Characters) evt).isWhiteSpace()) {
                    break;
                }
                reportProblem(findErrorDesc(ERR_NEXTTAG_NON_WS_TEXT, type));
                break; // never gets here, but some compilers whine without...
            case START_ELEMENT:
            case END_ELEMENT:

```

```

        return evt;

    default:
        reportProblem(findErrorDesc(ERR_NEXTTAG_WRONG_TYPE, type));
    }
} else {
    /* 13-Sep-2005, TSA: As pointed out by Patrick, we may need to
    * initialize the state here, too; otherwise peek() won't work
    * correctly. The problem is that following loop's get method
    * does not use event reader's method but underlying reader's.
    * As such, it won't update state: most importantly, initial
    * state may not be changed to non-initial.
    */
    if (mState == STATE_INITIAL) {
        mState = STATE_CONTENT;
    }
}

while (true) {
    int next = mReader.next();

    switch (next) {
    case END_DOCUMENT:
        return null;
    case SPACE:
        /* !!! 07-Dec-2004, TSA: Specs are mum about Comments and PIs.
        * But why would they not be skipped just like what
        * the stream reader does?
        */
    case COMMENT:
    case PROCESSING_INSTRUCTION:
        continue;
    case CDATA:
    case CHARACTERS:
        if (mReader.isWhiteSpace()) {
            continue;
        }
        reportProblem(findErrorDesc(ERR_NEXTTAG_NON_WS_TEXT, next));
        break; // just to keep Jikes happy...

    case START_ELEMENT:
    case END_ELEMENT:
        return createNextEvent(false, next);

    default:
        reportProblem(findErrorDesc(ERR_NEXTTAG_WRONG_TYPE, next));
    }
}

```

```

}

public XMLEvent peek()
    throws XMLStreamException
{
    if (mPeekedEvent == null) {
        if (mState == STATE_END_OF_INPUT) {
            // 06-Mar-2006, TSa: Fixed as per Arjen's suggestion:
            //throwEndOfInput();
            return null;
        }
        if (mState == STATE_INITIAL) {
            // Not sure what it should be... but this should do:
            mPrePeekEvent = START_DOCUMENT;
            mPeekedEvent = createStartDocumentEvent();
            mState = STATE_CONTENT;
        } else {
            mPrePeekEvent = mReader.getEventType();
            mPeekedEvent = createNextEvent(false, mReader.next());
        }
    }
    return mPeekedEvent;
}

/**
 * Note: only here because we implement Iterator interface. Will not
 * work, don't bother calling it.
 */
public void remove() {
    throw new UnsupportedOperationException("Can not remove events from XMLEventReader.");
}

/**
 *////////////////////////////////////////
 *// XMLEventReader2 API
 *////////////////////////////////////////
 */

/**
 * <p>
 * Note: although the interface allows implementations to
 * throw an { @link XMLStreamException }, the reference implementation
 * doesn't currently need to.
 * It's still declared, in case in future there is need to throw
 * such an exception.
 */
public boolean hasNextEvent()
    throws XMLStreamException

```



```

{
    return (mState != STATE_END_OF_INPUT);
}

/*
////////////////////////////////////
// Overridable factory methods
////////////////////////////////////
*/

protected XMLEvent createNextEvent(boolean checkEOD, int type)
    throws XMLStreamException
{
    try {
        XMLEvent evt = mAllocator.allocate(mReader);
        if (checkEOD && type == END_DOCUMENT) {
            mState = STATE_END_OF_INPUT;
        }
        return evt;
    } catch (RuntimeException rex) {
        /* 29-Mar-2008, TSA: Due to some problems with Stax API
        * (lack of 'throws XMLStreamException' in signature of
        * XMLStreamReader.getText(), for one) it is possible
        * we will get a wrapped XMLStreamException. If so,
        * we should be able to unwrap it.
        */
        Throwable t = rex.getCause();
        while (t != null) {
            if (t instanceof XMLStreamException) {
                throw (XMLStreamException) t;
            }
            t = t.getCause();
        }
        // Nope, need to re-throw as is
        throw rex;
    }
}

/**
 * Method called to create the very first event (START_DOCUMENT).
 */
protected XMLEvent createStartDocumentEvent()
    throws XMLStreamException
{
    XMLEvent start = mAllocator.allocate(mReader);
    return start;
}

```

```

/*
////////////////////////////////////
// Overridable error reporting methods
////////////////////////////////////
*/

private void throwEndOfInput()
{
    throw new NoSuchElementException();
}

protected void throwUnchecked(XMLStreamException sex)
{
    /* Wrapped root cause? Let's only unwrap one layer; one that
    * must have been used to expose the problem (if any)
    */
    Throwable t = (sex.getNestedException() == null) ? sex : sex.getNestedException();
    // Unchecked? Can re-throw as is
    if (t instanceof RuntimeException) {
        throw (RuntimeException) t;
    }
    if (t instanceof Error) {
        throw (Error) t;
    }
    // Otherwise, let's just wrap it
    throw new RuntimeException("[was "+t.getClass()+"] "+t.getMessage(), t);
}

protected void reportProblem(String msg)
    throws XMLStreamException
{
    reportProblem(msg, mReader.getLocation());
}

protected void reportProblem(String msg, Location loc)
    throws XMLStreamException
{
    if (loc == null) {
        throw new XMLStreamException(msg);
    }
    throw new XMLStreamException(msg, loc);
}

/*
////////////////////////////////////
// Package methods for sub-classes
////////////////////////////////////
*/

```

```

protected XMLStreamReader getStreamReader()
{
    return mReader;
}

/*
////////////////////////////////////
// Other internal methods
////////////////////////////////////
*/

/**
 * Method used to locate error message description to use.
 * Calls sub-classes <code>getErrorDesc()</code> first, and only
 * if no message found, uses default messages defined here.
 */
private final String findErrorDesc(int errorType, int currEvent)
{
    String msg = getErrorDesc(errorType, currEvent);
    if (msg != null) {
        return msg;
    }
    switch (errorType) {
    case ERR_GETELEMTEXT_NOT_START_ELEM:
        return "Current state not START_ELEMENT when calling getElementText()";
    case ERR_GETELEMTEXT_NON_TEXT_EVENT:
        return "Expected a text token";
    case ERR_NEXTTAG_NON_WS_TEXT:
        return "Only all-whitespace CHARACTERS/CDATA (or SPACE) allowed for nextTag()";
    case ERR_NEXTTAG_WRONG_TYPE:
        return "Should only encounter START_ELEMENT/END_ELEMENT, SPACE, or all-white-space
CHARACTERS";
    }

    // should never happen, but it'd be bad to throw another exception...
    return "Internal error (unrecognized error type: "+errorType+)";
}
}
/* Stax2 API extension for Streaming Api for Xml processing (StAX).
 *
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*/

```

```
package org.codehaus.stax2.ri;
```

```
import java.io.IOException;
import java.io.Writer;
import java.math.BigDecimal;
import java.math.BigInteger;
```

```
import javax.xml.namespace.NamespaceContext;
import javax.xml.namespace.QName;
import javax.xml.stream.*;
```

```
import org.codehaus.stax2.*;
import org.codehaus.stax2.typed.Base64Variant;
import org.codehaus.stax2.typed.Base64Variants;
import org.codehaus.stax2.typed.TypedArrayDecoder;
import org.codehaus.stax2.typed.TypedValueDecoder;
import org.codehaus.stax2.typed.TypedXMLStreamException;
import org.codehaus.stax2.validation.*;
```

```
import org.codehaus.stax2.ri.typed.ValueDecoderFactory;
```

```
/**
 * This is a partial base implementation of { @link XMLStreamReader2 },
 * the extended stream reader that is part of Stax2.
 */

```

```
public abstract class Stax2ReaderImpl
    implements XMLStreamReader2 /* From Stax2 */
    ,AttributeInfo
    ,DTDInfo
    ,LocationInfo
{

```

```
    /**
     * Factory used for constructing decoders we need for typed access
     */
    protected ValueDecoderFactory _decoderFactory;
```

```
    /*
     ////////////////////////////////////////////////////////////////////
     // Life-cycle methods
     ////////////////////////////////////////////////////////////////////
     */

```

```
    protected Stax2ReaderImpl()
```

```

{
}

/*
////////////////////////////////////
// XMLStreamReader2 (StAX2) implementation
////////////////////////////////////
*/

// // // StAX2, per-reader configuration

public Object getFeature(String name)
{
    // No features defined
    return null;
}

public void setFeature(String name, Object value)
{
    // No features defined
}

// NOTE: getProperty() defined in Stax 1.0 interface

public boolean isPropertySupported(String name) {
    /* No way to cleanly implement this using just Stax 1.0
    * interface, so let's be conservative and decline any knowledge
    * of properties...
    */
    return false;
}

public boolean setProperty(String name, Object value)
{
    return false; // could throw an exception too
}

// // // StAX2, additional traversal methods

public void skipElement() throws XMLStreamException
{
    if (getEventType() != START_ELEMENT) {
        throwNotStartElem();
    }
    int nesting = 1; // need one more end elements than start elements

    while (true) {
        int type = next();

```

```

        if (type == START_ELEMENT) {
            ++nesting;
        } else if (type == END_ELEMENT) {
            if (--nesting == 0) {
                break;
            }
        }
    }
}

// // // StAX2, additional attribute access

public AttributeInfo getAttributeInfo() throws XMLStreamException
{
    if (getEventType() != START_ELEMENT) {
        throwNotStartElem();
    }
    return this;
}

// // // StAX2, Additional DTD access

public DTDInfo getDTDInfo() throws XMLStreamException
{
    if (getEventType() != DTD) {
        return null;
    }
    return this;
}

// // // StAX2, Additional location information

/**
 * Location information is always accessible, for this reader.
 */
public final LocationInfo getLocationInfo() {
    return this;
}

// // // StAX2, Pass-through text accessors

public int getText(Writer w, boolean preserveContents)
    throws IOException, XMLStreamException
{
    char[] cbuf = getTextCharacters();
    int start = getTextStart();
    int len = getTextLength();

```

```

    if (len > 0) {
        w.write(cbuf, start, len);
    }
    return len;
}

// /// StAX 2, Other accessors

/**
 * @return Number of open elements in the stack; 0 when parser is in
 * prolog/epilog, 1 inside root element and so on.
 */
public abstract int getDepth();

public abstract boolean isEmptyElement() throws XMLStreamException;

public abstract NamespaceContext getNonTransientNamespaceContext();

public String getPrefixedName()
{
    switch (getEventType()) {
        case START_ELEMENT:
        case END_ELEMENT:
            {
                String prefix = getPrefix();
                String ln = getLocalName();

                if (prefix == null) {
                    return ln;
                }
                StringBuffer sb = new StringBuffer(ln.length() + 1 + prefix.length());
                sb.append(prefix);
                sb.append(':');
                sb.append(ln);
                return sb.toString();
            }
        case ENTITY_REFERENCE:
            return getLocalName();
        case PROCESSING_INSTRUCTION:
            return getPITarget();
        case DTD:
            return getDTDRootName();
    }
    throw new IllegalStateException("Current state not START_ELEMENT, END_ELEMENT,
ENTITY_REFERENCE, PROCESSING_INSTRUCTION or DTD");
}

```

```

public void closeCompletely() throws XMLStreamException
{
    /* As usual, Stax 1.0 offers no generic way of doing just this.
     * But let's at least call the lame basic close()
     */
    close();
}

/*
////////////////////////////////////
// AttributeInfo implementation (StAX 2)
////////////////////////////////////
*/

// Already part of XMLStreamReader
//public int getAttributeCount();

public int findAttributeIndex(String nsURI, String localName)
{
    // !!! TBI
    return -1;
}

public int getIdAttributeIndex()
{
    // !!! TBI
    return -1;
}

public int getNotationAttributeIndex()
{
    // !!! TBI
    return -1;
}

/*
////////////////////////////////////
// DTDInfo implementation (StAX 2)
////////////////////////////////////
*/

public Object getProcessedDTD() {
    return null;
}

public String getDTDRootName() {
    return null;
}

```



```

public String getDTDPublicId() {
    return null;
}

public String getDTDSYSTEMID() {
    return null;
}

/**
 * @return Internal subset portion of the DOCTYPE declaration, if any;
 * empty String if none
 */
public String getDTDInternalSubset() {
    return null;
}

// // StAX2, v2.0

public DTDValidationSchema getProcessedDTDSchema() {
    return null;
}

/**
 ////////////////////////////////////////////////////////////////////
 // LocationInfo implementation (StAX 2)
 ////////////////////////////////////////////////////////////////////
 */

// // // First, the "raw" offset accessors:

public long getStartingByteOffset() {
    return -1L;
}

public long getStartingCharOffset() {
    return 0;
}

public long getEndingByteOffset() throws XMLStreamException
{
    return -1;
}

public long getEndingCharOffset() throws XMLStreamException
{
    return -1;
}

```

```

// // // and then the object-based access methods:

public abstract XMLStreamLocation2 getStartLocation();

public abstract XMLStreamLocation2 getCurrentLocation();

public abstract XMLStreamLocation2 getEndLocation()
    throws XMLStreamException;

/*
// Stax2 validation
*/

public XMLValidator validateAgainst(XMLValidationSchema schema)
    throws XMLStreamException
{
    throwUnsupported();
    return null;
}

public XMLValidator stopValidatingAgainst(XMLValidationSchema schema)
    throws XMLStreamException
{
    throwUnsupported();
    return null;
}

public XMLValidator stopValidatingAgainst(XMLValidator validator)
    throws XMLStreamException
{
    throwUnsupported();
    return null;
}

public abstract ValidationProblemHandler setValidationProblemHandler(ValidationProblemHandler h);

/*
// TypedXMLStreamReader, scalar elements
*/

public boolean getElementAsBoolean() throws XMLStreamException
{
    ValueDecoderFactory.BooleanDecoder dec = _decoderFactory().getBooleanDecoder();

```

```

        getElementAs(dec);
        return dec.getValue();
    }

    public int getElementAsInt() throws XMLStreamException
    {
        ValueDecoderFactory.IntDecoder dec = _decoderFactory().getIntDecoder();
        getElementAs(dec);
        return dec.getValue();
    }

    public long getElementAsLong() throws XMLStreamException
    {
        ValueDecoderFactory.LongDecoder dec = _decoderFactory().getLongDecoder();
        getElementAs(dec);
        return dec.getValue();
    }

    public float getElementAsFloat() throws XMLStreamException
    {
        ValueDecoderFactory.FloatDecoder dec = _decoderFactory().getFloatDecoder();
        getElementAs(dec);
        return dec.getValue();
    }

    public double getElementAsDouble() throws XMLStreamException
    {
        ValueDecoderFactory.DoubleDecoder dec = _decoderFactory().getDoubleDecoder();
        getElementAs(dec);
        return dec.getValue();
    }

    public BigInteger getElementAsInteger() throws XMLStreamException
    {
        ValueDecoderFactory.IntegerDecoder dec = _decoderFactory().getIntegerDecoder();
        getElementAs(dec);
        return dec.getValue();
    }

    public BigDecimal getElementAsDecimal() throws XMLStreamException
    {
        ValueDecoderFactory.DecimalDecoder dec = _decoderFactory().getDecimalDecoder();
        getElementAs(dec);
        return dec.getValue();
    }

    public QName getElementAsQName() throws XMLStreamException
    {

```

```

    ValueDecoderFactory.QNameDecoder dec = _decoderFactory().getQNameDecoder(getNamespaceContext());
    getElementAs(dec);
    // !!! Should we try to verify validity of name chars?
    return dec.getValue();
}

public byte[] getElementAsBinary() throws XMLStreamException
{
    return getElementAsBinary(Base64Variants.getDefaultVariant());
}

// !!! TODO: copy code from Stax2ReaderAdapter?
public abstract byte[] getElementAsBinary(Base64Variant v) throws XMLStreamException;

public void getElementAs(TypedValueDecoder tvd) throws XMLStreamException
{
    String value = getElementText();
    try {
        tvd.decode(value);
    } catch (IllegalArgumentException iae) {
        throw _constructTypeException(iae, value);
    }
}

/*
// TypedXMLStreamReader2 implementation, array elements
*/

public int readElementAsIntArray(int[] value, int from, int length) throws XMLStreamException
{
    return readElementAsArray(_decoderFactory().getIntArrayDecoder(value, from, length));
}

public int readElementAsLongArray(long[] value, int from, int length) throws XMLStreamException
{
    return readElementAsArray(_decoderFactory().getLongArrayDecoder(value, from, length));
}

public int readElementAsFloatArray(float[] value, int from, int length) throws XMLStreamException
{
    return readElementAsArray(_decoderFactory().getFloatArrayDecoder(value, from, length));
}

public int readElementAsDoubleArray(double[] value, int from, int length) throws XMLStreamException
{
    return readElementAsArray(_decoderFactory().getDoubleArrayDecoder(value, from, length));
}

```

```

}

/**
 * Actual implementation needs to implement tokenization and state
 * keeping.
 * <p>
 * !!! TODO: should be possible to implement completely
 */
public abstract int readElementAsArray(TypedArrayDecoder dec)
    throws XMLStreamException;

/**
 ////////////////////////////////////////////////////
 // TypedXMLStreamReader2 implementation, binary data
 ////////////////////////////////////////////////////
 */

public int readElementAsBinary(byte[] resultBuffer, int offset, int maxLength)
    throws XMLStreamException
{
    return readElementAsBinary(Base64Variants.getDefaultVariant(), resultBuffer, offset, maxLength);
}

public abstract int readElementAsBinary(Base64Variant b64variant, byte[] resultBuffer, int offset, int maxLength)
    throws XMLStreamException;

/**
 ////////////////////////////////////////////////////
 // TypedXMLStreamReader2 implementation, scalar attributes
 ////////////////////////////////////////////////////
 */

public abstract int getAttributeIndex(String namespaceURI, String localName);

public boolean getAttributeAsBoolean(int index) throws XMLStreamException
{
    ValueDecoderFactory.BooleanDecoder dec = _decoderFactory().getBooleanDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public int getAttributeAsInt(int index) throws XMLStreamException
{
    ValueDecoderFactory.IntDecoder dec = _decoderFactory().getIntDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

```

```

public long getAttributeAsLong(int index) throws XMLStreamException
{
    ValueDecoderFactory.LongDecoder dec = _decoderFactory().getLongDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public float getAttributeAsFloat(int index) throws XMLStreamException
{
    ValueDecoderFactory.FloatDecoder dec = _decoderFactory().getFloatDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public double getAttributeAsDouble(int index) throws XMLStreamException
{
    ValueDecoderFactory.DoubleDecoder dec = _decoderFactory().getDoubleDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public BigInteger getAttributeAsInteger(int index) throws XMLStreamException
{
    ValueDecoderFactory.IntegerDecoder dec = _decoderFactory().getIntegerDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public BigDecimal getAttributeAsDecimal(int index) throws XMLStreamException
{
    ValueDecoderFactory.DecimalDecoder dec = _decoderFactory().getDecimalDecoder();
    getAttributeAs(index, dec);
    return dec.getValue();
}

public QName getAttributeAsQName(int index) throws XMLStreamException
{
    ValueDecoderFactory.QNameDecoder dec = _decoderFactory().getQNameDecoder(getNamespaceContext());
    getAttributeAs(index, dec);
    // !!! Should we try to verify validity of name chars?
    return dec.getValue();
}

public void getAttributeAs(int index, TypedValueDecoder tvd) throws XMLStreamException
{
    String value = getAttributeValue(index);
    try {
        tvd.decode(value);
    }
}

```

```

    } catch (IllegalArgumentException iae) {
        throw _constructTypeException(iae, value);
    }
}

public int[] getAttributeAsIntArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.IntArrayDecoder dec = _decoderFactory().getIntArrayDecoder();
    getAttributeAsArray(index, dec);
    return dec.getValues();
}

public long[] getAttributeAsLongArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.LongArrayDecoder dec = _decoderFactory().getLongArrayDecoder();
    getAttributeAsArray(index, dec);
    return dec.getValues();
}

public float[] getAttributeAsFloatArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.FloatArrayDecoder dec = _decoderFactory().getFloatArrayDecoder();
    getAttributeAsArray(index, dec);
    return dec.getValues();
}

public double[] getAttributeAsDoubleArray(int index) throws XMLStreamException
{
    ValueDecoderFactory.DoubleArrayDecoder dec = _decoderFactory().getDoubleArrayDecoder();
    getAttributeAsArray(index, dec);
    return dec.getValues();
}

/**
 * Actual implementation needs to implement tokenization.
 * <p>
 * !!! TODO: should be possible to implement completely
 */
public abstract int getAttributeAsArray(int index, TypedArrayDecoder tad) throws XMLStreamException;

public byte[] getAttributeAsBinary(int index) throws XMLStreamException
{
    return getAttributeAsBinary(Base64Variants.getDefaultVariant(), index);
}

public abstract byte[] getAttributeAsBinary(Base64Variant v, int index) throws XMLStreamException;

/*

```

```

////////////////////////////////////
// Package methods
////////////////////////////////////
*/

protected ValueDecoderFactory _decoderFactory()
{
    if (_decoderFactory == null) {
        _decoderFactory = new ValueDecoderFactory();
    }
    return _decoderFactory;
}

protected TypedXMLStreamException _constructTypeException(IllegalArgumentException iae, String
lexicalValue)
{
    return new TypedXMLStreamException(lexicalValue, iae.getMessage(), getLocation(), iae);
}

/*
////////////////////////////////////
// Internal methods
////////////////////////////////////
*/

protected void throwUnsupported()
    throws XMLStreamException
{
    throw new XMLStreamException("Unsupported method");
}

protected void throwNotStartElem()
{
    throw new IllegalStateException("Current state not START_ELEMENT");
}
}
/* Stax2 API extension for Streaming Api for Xml processing (StAX).
*
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```



```

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*/
package org.codehaus.stax2.ri;

import javax.xml.stream.*;

import org.codehaus.stax2.*;
import org.codehaus.stax2.validation.*;

/**
 * This is a partial base implementation of { @link XMLStreamWriter2},
 * the extended stream writer that is part of Stax2.
 */
public abstract class Stax2WriterImpl
    implements XMLStreamWriter2 /* From Stax2 */
        ,XMLStreamConstants
{
    /*
    // Life-cycle methods
    */

    protected Stax2WriterImpl() { }

    /*
    // XMLStreamWriter2 (StAX2) implementation
    */

    public boolean isPropertySupported(String name)
    {
        /* No base properties (or should we have something for impl
        * name, version?)
        */
        return false;
    }

    public boolean setProperty(String name, Object value)
    {
        throw new IllegalArgumentException("No settable property '"+name+"'");
    }

    public abstract XMLStreamLocation2 getLocation();

    public abstract String getEncoding();

```

```

public void writeCDATA(char[] text, int start, int len)
    throws XMLStreamException
{
    writeCDATA(new String(text, start, len));
}

public void writeDTD(String rootName, String systemId, String publicId,
                    String internalSubset)
    throws XMLStreamException
{
    /* This may or may not work... depending on how well underlying
    * implementation follows stax 1.0 spec (it should work)
    */
    StringBuffer sb = new StringBuffer();
    sb.append("<!DOCTYPE");
    sb.append(rootName);
    if (systemId != null) {
        if (publicId != null) {
            sb.append(" PUBLIC \"");
            sb.append(publicId);
            sb.append("\ \"");
        } else {
            sb.append(" SYSTEM \"");
        }
        sb.append(systemId);
        sb.append("");
    }
    // Hmmh. Should we output empty internal subset?
    if (internalSubset != null && internalSubset.length() > 0) {
        sb.append(" [");
        sb.append(internalSubset);
        sb.append(']');
    }
    sb.append('>');
    writeDTD(sb.toString());
}

public void writeFullEndElement()
    throws XMLStreamException
{
    /* This should work with base Stax 1.0 implementations.
    * Sub-classes are, however, encouraged to implement it
    * more directly, if possible.
    */
    writeCharacters("");
    writeEndElement();
}

```

```

public void writeSpace(String text)
    throws XMLStreamException
{
    /* Hmmh. Two choices: either try to write as regular characters,
     * or output as is via raw calls. Latter would be safer, if we
     * had access to it; former may escape incorrectly.
     * While this may not be optimal, let's try former
     */
    writeRaw(text);
}

public void writeSpace(char[] text, int offset, int length)
    throws XMLStreamException
{
    // See comments above...
    writeRaw(text, offset, length);
}

public abstract void writeStartDocument(String version, String encoding,
                                         boolean standAlone)
    throws XMLStreamException;

/*
////////////////////////////////////////////////////////////////////
// Stax2, Pass-through methods
////////////////////////////////////////////////////////////////////
*/

public void writeRaw(String text)
    throws XMLStreamException
{
    writeRaw(text, 0, text.length());
}

public abstract void writeRaw(String text, int offset, int len)
    throws XMLStreamException;

public abstract void writeRaw(char[] text, int offset, int length)
    throws XMLStreamException;

public void copyEventFromReader(XMLStreamReader2 sr, boolean preserveEventData)
    throws XMLStreamException
{
    switch (sr.getEventType()) {
    case START_DOCUMENT:
        {
            String version = sr.getVersion();
            /* No real declaration? If so, we don't want to output

```

```

    * anything, to replicate as closely as possible the
    * source document
    */
    if (version == null || version.length() == 0) {
        ; // no output if no real input
    } else {
        if (sr.standaloneSet()) {
            writeStartDocument(sr.getVersion(),
                sr.getCharacterEncodingScheme(),
                sr.isStandalone());
        } else {
            writeStartDocument(sr.getCharacterEncodingScheme(),
                sr.getVersion());
        }
    }
}
return;

case END_DOCUMENT:
    writeEndDocument();
    return;

// Element start/end events:
case START_ELEMENT:
    /* Start element is bit trickier to output since there
    * may be differences between repairing/non-repairing
    * writers. But let's try a generic handling here.
    */
    copyStartElement(sr);
    return;

case END_ELEMENT:
    writeEndElement();
    return;

case SPACE:
    writeSpace(sr.getTextCharacters(), sr.getTextStart(), sr.getTextLength());
    return;

case CDATA:
    writeCDATA(sr.getTextCharacters(), sr.getTextStart(), sr.getTextLength());
    return;

case CHARACTERS:
    writeCharacters(sr.getTextCharacters(), sr.getTextStart(), sr.getTextLength());
    return;

case COMMENT:

```

```

        writeComment(sr.getText());
        return;

    case PROCESSING_INSTRUCTION:
        writeProcessingInstruction(sr.getPITarget(), sr.getPIData());
        return;

    case DTD:
        {
            DTDInfo info = sr.getDTDInfo();
            if (info == null) {
                /* Hmmmmh. Can this happen for non-DTD-aware readers?
                 * And if so, what should we do?
                 */
                throw new XMLStreamException("Current state DOCTYPE, but not DTDInfo Object returned -- reader
doesn't support DTDs?");
            }
            writeDTD(info.getDTDRootName(), info.getDTDSystemId(),
                    info.getDTDPublicId(), info.getDTDInternalSubset());
        }
        return;

    case ENTITY_REFERENCE:
        writeEntityRef(sr.getLocalName());
        return;

    case ATTRIBUTE:
    case NAMESPACE:
    case ENTITY_DECLARATION:
    case NOTATION_DECLARATION:
        // Let's just fall back to throw the exception
    }
    throw new XMLStreamException("Unrecognized event type ("
        +sr.getEventType()+"); not sure how to copy");
}

/*
////////////////////////////////////
// Stax2, validation
////////////////////////////////////
*/

public XMLValidator validateAgainst(XMLValidationSchema schema)
    throws XMLStreamException
{
    throw new UnsupportedOperationException("Not yet implemented");
}

```

```

public XMLValidator stopValidatingAgainst(XMLValidationSchema schema)
    throws XMLStreamException
{
    return null;
}

public XMLValidator stopValidatingAgainst(XMLValidator validator)
    throws XMLStreamException
{
    return null;
}

public ValidationProblemHandler setValidationProblemHandler(ValidationProblemHandler h)
{
    /* Not a real problem: although we can't do anything with it
     * (without real validator integration)
     */
    return null;
}

/*
////////////////////////////////////
// Helper methods
////////////////////////////////////
*/

/**
 * Basic implementation of copy operation. It is likely that
 * sub-classes can implement more efficient copy operations: if so,
 * they should do so.
 */
protected void copyStartElement(XMLStreamReader sr)
    throws XMLStreamException
{
    // Any namespace declarations/bindings?
    int nsCount = sr.getNamespaceCount();
    if (nsCount > 0) { // yup, got some...
        /* First, need to (or at least, should?) add prefix bindings:
         * (may not be 100% required, but probably a good thing to do,
         * just so that app code has access to prefixes then)
         */
        for (int i = 0; i < nsCount; ++i) {
            String prefix = sr.getNamespacePrefix(i);
            String uri = sr.getNamespaceURI(i);
            if (prefix == null || prefix.length() == 0) { // default NS
                setDefaultNamespace(uri);
            } else {
                setPrefix(prefix, uri);
            }
        }
    }
}

```

```

    }
  }
}
writeStartElement(sr.getPrefix(), sr.getLocalName(), sr.getNamespaceURI());

if (nsCount > 0) {
  // And then output actual namespace declarations:
  for (int i = 0; i < nsCount; ++i) {
    String prefix = sr.getNamespacePrefix(i);
    String uri = sr.getNamespaceURI(i);

    if (prefix == null || prefix.length() == 0) { // default NS
      writeDefaultNamespace(uri);
    } else {
      writeNamespace(prefix, uri);
    }
  }
}

/* And then let's just output attributes. But should we copy the
 * implicit attributes (created via attribute defaulting?)
 */
int attrCount = sr.getAttributeCount();
if (attrCount > 0) {
  for (int i = 0; i < attrCount; ++i) {
    writeAttribute(sr.getAttributePrefix(i),
                  sr.getAttributeNamespace(i),
                  sr.getAttributeLocalName(i),
                  sr.getAttributeValue(i));
  }
}
}
}
}

```

## 8.246 toaster-config 1.1.1-Helium-SR1

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## 8.248 velocity 1.7

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## 8.253 xbean-spring 3.6

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XmlSchema

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## 8.263 xpp3\_min 1.1.4c

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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

## 8.264 xstream:jar 1.4.4 :REL

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  - \* Created on 22. January 2005 by Joe Walnes
  - \*/
- package com.thoughtworks.xstream.mapper;

```

import com.thoughtworks.xstream.InitializationException;

import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

/**
 * Mapper that resolves default implementations of classes. For example,
 * mapper.serializedClass(ArrayList.class) will return java.util.List. Calling
 * mapper.defaultImplementationOf(List.class) will return ArrayList.
 *
 * @author Joe Walnes
 */
public class DefaultImplementationsMapper extends MapperWrapper {

    private final Map typeToImpl = new HashMap();
    private transient Map implToType = new HashMap();

    public DefaultImplementationsMapper(Mapper wrapped) {
        super(wrapped);
        addDefaults();
    }

    protected void addDefaults() {
        // null handling
        addDefaultImplementation(null, Mapper.Null.class);
        // register primitive types
        addDefaultImplementation(Boolean.class, boolean.class);
        addDefaultImplementation(Character.class, char.class);
        addDefaultImplementation(Integer.class, int.class);
        addDefaultImplementation(Float.class, float.class);
        addDefaultImplementation(Double.class, double.class);
        addDefaultImplementation(Short.class, short.class);
        addDefaultImplementation(Byte.class, byte.class);
        addDefaultImplementation(Long.class, long.class);
    }

    public void addDefaultImplementation(Class defaultImplementation, Class ofType) {
        if (defaultImplementation != null && defaultImplementation.isInterface()) {
            throw new InitializationException(
                "Default implementation is not a concrete class: "
                + defaultImplementation.getName());
        }
        typeToImpl.put(ofType, defaultImplementation);
        implToType.put(defaultImplementation, ofType);
    }
}

```

```

public String serializedClass(Class type) {
    Class baseType = (Class)implToType.get(type);
    return baseType == null ? super.serializedClass(type) : super.serializedClass(baseType);
}

public Class defaultImplementationOf(Class type) {
    if (typeToImpl.containsKey(type)) {
        return (Class)typeToImpl.get(type);
    } else {
        return super.defaultImplementationOf(type);
    }
}

private Object readResolve() {
    implToType = new HashMap();
    for (final Iterator iter = typeToImpl.keySet().iterator(); iter.hasNext();) {
        final Object type = iter.next();
        implToType.put(typeToImpl.get(type), type);
    }
    return this;
}
}
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 *
 * Created on 16. February 2005 by Joe Walnes
 */
package com.thoughtworks.xstream.mapper;

import com.thoughtworks.xstream.InitializationException;
import com.thoughtworks.xstream.core.util.Primitives;

import java.lang.reflect.Field;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

public class ImplicitCollectionMapper extends MapperWrapper {

```



```

public ImplicitCollectionMapper(Mapper wrapped) {
    super(wrapped);
}

// { definedIn (Class) -> (ImplicitCollectionMapperForClass) }
private final Map classNameToMapper = new HashMap();

private ImplicitCollectionMapperForClass getMapper(Class definedIn) {
    while (definedIn != null) {
        ImplicitCollectionMapperForClass mapper = (ImplicitCollectionMapperForClass)classNameToMapper
            .get(definedIn);
        if (mapper != null) {
            return mapper;
        }
        definedIn = definedIn.getSuperclass();
    }
    return null;
}

private ImplicitCollectionMapperForClass getOrCreateMapper(Class definedIn) {
    ImplicitCollectionMapperForClass mapper = (ImplicitCollectionMapperForClass)classNameToMapper
        .get(definedIn);
    if (mapper == null) {
        mapper = new ImplicitCollectionMapperForClass(definedIn);
        classNameToMapper.put(definedIn, mapper);
    }
    return mapper;
}

public String getFieldnameForItemTypeAndName(Class definedIn, Class itemType,
    String itemFieldName) {
    ImplicitCollectionMapperForClass mapper = getMapper(definedIn);
    if (mapper != null) {
        return mapper.getFieldnameForItemTypeAndName(itemType, itemFieldName);
    } else {
        return null;
    }
}

public Class getItemTypeForItemFieldName(Class definedIn, String itemFieldName) {
    ImplicitCollectionMapperForClass mapper = getMapper(definedIn);
    if (mapper != null) {
        return mapper.getItemTypeForItemFieldName(itemFieldName);
    } else {
        return null;
    }
}

```

```

public ImplicitCollectionMapping getImplicitCollectionDefForFieldName(Class itemType,
    String fieldName) {
    ImplicitCollectionMapperForClass mapper = getMapper(itemType);
    if (mapper != null) {
        return mapper.getImplicitCollectionDefForFieldName(fieldName);
    } else {
        return null;
    }
}

public void add(Class definedIn, String fieldName, Class itemType) {
    add(definedIn, fieldName, null, itemType);
}

public void add(Class definedIn, String fieldName, String itemFieldName, Class itemType) {
    add(definedIn, fieldName, itemFieldName, itemType, null);
}

public void add(Class definedIn, String fieldName, String itemFieldName, Class itemType, String keyFieldName)
{
    Field field = null;
    Class declaredIn = definedIn;
    while (declaredIn != Object.class) {
        try {
            field = declaredIn.getDeclaredField(fieldName);
            break;
        } catch (SecurityException e) {
            throw new InitializationException(
                "Access denied for field with implicit collection", e);
        } catch (NoSuchFieldException e) {
            declaredIn = declaredIn.getSuperclass();
        }
    }
    if (field == null) {
        throw new InitializationException("No field \"
            + fieldName
            + "\" for implicit collection");
    } else if (Map.class.isAssignableFrom(field.getType())) {
        if (itemFieldName == null && keyFieldName == null) {
            itemType = Map.Entry.class;
        }
    } else if (!Collection.class.isAssignableFrom(field.getType())) {
        Class fieldType = field.getType();
        if (!fieldType.isArray()) {
            throw new InitializationException("Field \"
                + fieldName
                + "\" declares no collection or array");
        } else {

```

```

    Class componentType = fieldType.getComponentType();
    componentType = componentType.isPrimitive() ? Primitives.box(componentType) : componentType;
    if (itemType == null) {
        itemType = componentType;
    } else {
        itemType = itemType.isPrimitive() ? Primitives.box(itemType) : itemType;
        if (!componentType.isAssignableFrom(itemType)) {
            throw new InitializationException("Field \""
                + fieldName
                + "\" declares an array, but the array type is not compatible with " + itemType.getName());
        }
    }
}
}
}
}
ImplicitCollectionMapperForClass mapper = getOrCreateMapper(definedIn);
mapper.add(new ImplicitCollectionMappingImpl(fieldName, itemType, itemFieldName, keyFieldName));
}

```

```

private class ImplicitCollectionMapperForClass {
    private Class definedIn;
    // { (NamedItemType) -> (ImplicitCollectionDefImpl) }
    private Map namedItemTypeToDef = new HashMap();
    // { itemFieldName (String) -> (ImplicitCollectionDefImpl) }
    private Map itemFieldNameToDef = new HashMap();
    // { fieldName (String) -> (ImplicitCollectionDefImpl) }
    private Map fieldNameToDef = new HashMap();

    ImplicitCollectionMapperForClass(Class definedIn) {
        this.definedIn = definedIn;
    }

    public String getFieldNameForItemTypeAndName(Class itemType, String itemFieldName) {
        ImplicitCollectionMappingImpl unnamed = null;
        for (Iterator iterator = namedItemTypeToDef.keySet().iterator(); iterator.hasNext();) {
            NamedItemType itemTypeForFieldName = (NamedItemType)iterator.next();
            ImplicitCollectionMappingImpl def = (ImplicitCollectionMappingImpl)namedItemTypeToDef
                .get(itemTypeForFieldName);
            if (itemType == Mapper.Null.class) {
                unnamed = def;
                break;
            } else if (itemTypeForFieldName.itemType.isAssignableFrom(itemType)) {
                if (def.getItemFieldName() != null) {
                    if (def.getItemFieldName().equals(itemFieldName)) {
                        return def.getFieldName();
                    }
                }
            } else {
                unnamed = def;
            }
        }
    }
}

```

```

        if (itemFieldName == null) {
            break;
        }
    }
}
}
if (unnamed != null) {
    return unnamed.getFieldName();
} else {
    ImplicitCollectionMapperForClass mapper =
ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
    return mapper != null ? mapper.getFieldNameForItemTypeAndName(itemType, itemFieldName) : null;
}
}

```

```

public Class getItemTypeForItemFieldName(String itemFieldName) {
    ImplicitCollectionMappingImpl def = getImplicitCollectionDefByItemFieldName(itemFieldName);
    if (def != null) {
        return def.getItemType();
    } else {
        ImplicitCollectionMapperForClass mapper =
ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
        return mapper != null ? mapper.getItemTypeForItemFieldName(itemFieldName) : null;
    }
}

```

```

private ImplicitCollectionMappingImpl getImplicitCollectionDefByItemFieldName(
    String itemFieldName) {
    if (itemFieldName == null) {
        return null;
    } else {
        ImplicitCollectionMappingImpl mapping =
(ImplicitCollectionMappingImpl)itemFieldNameToDef.get(itemFieldName);
        if (mapping != null) {
            return mapping;
        } else {
            ImplicitCollectionMapperForClass mapper =
ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
            return mapper != null ? mapper.getImplicitCollectionDefByItemFieldName(itemFieldName) : null;
        }
    }
}

```

```

public ImplicitCollectionMapping getImplicitCollectionDefForFieldName(String fieldName) {
    ImplicitCollectionMapping mapping = (ImplicitCollectionMapping)fieldNameToDef.get(fieldName);
    if (mapping != null) {
        return mapping;
    } else {

```

```

        ImplicitCollectionMapperForClass mapper =
ImplicitCollectionMapper.this.getMapper(definedIn.getSuperclass());
        return mapper != null ? mapper.getImplicitCollectionDefForFieldName(fieldName) : null;
    }
}

public void add(ImplicitCollectionMappingImpl def) {
    fieldNameToDef.put(def.getFieldName(), def);
    namedItemTypeToDef.put(def.createNamedItemType(), def);
    if (def.getItemFieldName() != null) {
        itemFieldNameToDef.put(def.getItemFieldName(), def);
    }
}

}

private static class ImplicitCollectionMappingImpl implements ImplicitCollectionMapping {
    private final String fieldName;
    private final String itemFieldName;
    private final Class itemType;
    private final String keyFieldName;

    ImplicitCollectionMappingImpl(String fieldName, Class itemType, String itemFieldName, String
keyFieldName) {
        this.fieldName = fieldName;
        this.itemFieldName = itemFieldName;
        this.itemType = itemType;
        this.keyFieldName = keyFieldName;
    }

    public NamedItemType createNamedItemType() {
        return new NamedItemType(itemType, itemFieldName);
    }

    public String getFieldName() {
        return fieldName;
    }

    public String getItemFieldName() {
        return itemFieldName;
    }

    public Class getItemType() {
        return itemType;
    }

    public String getKeyFieldName() {
        return keyFieldName;
    }
}

```

```

    }
}

private static class NamedItemType {
    Class itemType;
    String itemFieldName;

    NamedItemType(Class itemType, String itemFieldName) {
        this.itemType = itemType == null ? Object.class : itemType;
        this.itemFieldName = itemFieldName;
    }

    public boolean equals(Object obj) {
        if (obj instanceof NamedItemType) {
            NamedItemType b = (NamedItemType)obj;
            return itemType.equals(b.itemType) && isEqual(itemFieldName, b.itemFieldName);
        } else {
            return false;
        }
    }
}

private static boolean isEqual(Object a, Object b) {
    if (a == null) {
        return b == null;
    } else {
        return a.equals(b);
    }
}

public int hashCode() {
    int hash = itemType.hashCode() << 7;
    if (itemFieldName != null) {
        hash += itemFieldName.hashCode();
    }
    return hash;
}
}
}
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 *
 * Created on 06. May 2004 by Joe Walnes

```

```

*/
package com.thoughtworks.xstream.core.util;

import java.text.DateFormat;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;
import java.util.TimeZone;

/**
 * Wrapper around java.text.SimpleDateFormat that can
 * be called by multiple threads concurrently.
 * <p>SimpleDateFormat has a high overhead in creating
 * and is not thread safe. To make best use of resources,
 * the ThreadSafeSimpleDateFormat provides a dynamically
 * sizing pool of instances, each of which will only
 * be called by a single thread at a time.</p>
 * <p>The pool has a maximum capacity, to limit overhead.
 * If all instances in the pool are in use and another is
 * required, it shall block until one becomes available.</p>
 *
 * @author Joe Walnes
 * @author J&ouml;rg Schaible
 */
public class ThreadSafeSimpleDateFormat {

    private final String formatString;
    private final Pool pool;
    private final TimeZone timeZone;

    public ThreadSafeSimpleDateFormat(
        String format, TimeZone timeZone, int initialPoolSize, int maxPoolSize,
        final boolean lenient) {
        this(format, timeZone, Locale.ENGLISH, initialPoolSize, maxPoolSize, lenient);
    }

    public ThreadSafeSimpleDateFormat(
        String format, TimeZone timeZone, final Locale locale, int initialPoolSize,
        int maxPoolSize, final boolean lenient) {
        formatString = format;
        this.timeZone = timeZone;
        pool = new Pool(initialPoolSize, maxPoolSize, new Pool.Factory() {
            public Object newInstance() {
                SimpleDateFormat dateFormat = new SimpleDateFormat(formatString, locale);
                dateFormat.setLenient(lenient);
                return dateFormat;
            }
        });
    }

```

```

    });
}

public String format(Date date) {
    DateFormat format = fetchFromPool();
    try {
        return format.format(date);
    } finally {
        pool.putInPool(format);
    }
}

public Date parse(String date) throws ParseException {
    DateFormat format = fetchFromPool();
    try {
        return format.parse(date);
    } finally {
        pool.putInPool(format);
    }
}

private DateFormat fetchFromPool() {
    DateFormat format = (DateFormat)pool.fetchFromPool();
    TimeZone tz = timeZone != null ? timeZone : TimeZone.getDefault();
    if (!tz.equals(format.getTimeZone())) {
        format.setTimeZone(tz);
    }
    return format;
}

public String toString() {
    return formatString;
}
}
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 *
 * Created on 11. October 2006 by Joerg Schaible
 */
package com.thoughtworks.xstream.core.util;

import java.util.HashMap;

```



```

import java.util.Map;

/**
 * Utility class for primitives.
 *
 * @author J&ouml;rg Schaible
 * @since 1.2.1
 */
public final class Primitives {
    private final static Map BOX = new HashMap();
    private final static Map UNBOX = new HashMap();
    private final static Map NAMED_PRIMITIVE = new HashMap();
    private final static Map REPRESENTING_CHAR = new HashMap();

    static {
        final Class[][] boxing = new Class[][]{
            { Byte.TYPE, Byte.class },
            { Character.TYPE, Character.class },
            { Short.TYPE, Short.class },
            { Integer.TYPE, Integer.class },
            { Long.TYPE, Long.class },
            { Float.TYPE, Float.class },
            { Double.TYPE, Double.class },
            { Boolean.TYPE, Boolean.class },
            { Void.TYPE, Void.class },
        };
        final Character[] representingChars = {
            new Character('B'),
            new Character('C'),
            new Character('S'),
            new Character('T'),
            new Character('J'),
            new Character('F'),
            new Character('D'),
            new Character('Z'),
            null
        };
        for (int i = 0; i < boxing.length; i++) {
            final Class primitiveType = boxing[i][0];
            final Class boxedType = boxing[i][1];
            BOX.put(primitiveType, boxedType);
            UNBOX.put(boxedType, primitiveType);
            NAMED_PRIMITIVE.put(primitiveType.getName(), primitiveType);
            REPRESENTING_CHAR.put(primitiveType, representingChars[i]);
        }
    }
}
/**

```

```

* Get the boxed type for a primitive.
*
* @param type the primitive type
* @return the boxed type or null
*/
static public Class box(final Class type) {
    return (Class)BOX.get(type);
}

/**
* Get the primitive type for a boxed one.
*
* @param type the boxed type
* @return the primitive type or null
*/
static public Class unbox(final Class type) {
    return (Class)UNBOX.get(type);
}

/**
* Check for a boxed type.
*
* @param type the type to check
* @return <code>true</code> if the type is boxed
* @since 1.4
*/
static public boolean isBoxed(final Class type) {
    return UNBOX.containsKey(type);
}

/**
* Get the primitive type by name.
*
* @param name the name of the type
* @return the Java type or <code>null</code>
* @since 1.4
*/
static public Class primitiveType(final String name) {
    return (Class)NAMED_PRIMITIVE.get(name);
}

/**
* Get the representing character of a primitive type.
*
* @param type the primitive type
* @return the representing character or 0
* @since 1.4
*/

```

```

static public char representingChar(final Class type) {
    Character ch = (Character)REPRESENTING_CHAR.get(type);
    return ch == null ? 0 : ch.charValue();
}
}
/*
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* All rights reserved.
*
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* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. May 2005 by Guilherme Silveira
*/
package com.thoughtworks.xstream.annotations;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import java.lang.annotation.ElementType;

/**
* Declares a field to be omitted. The result is the same as invoking the method
* omitField in a XStream instance.
*
* @author Chung-Onn Cheong
* @author Guilherme Silveira
* @since 1.2.2
*/
@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.FIELD)
public @interface XStreamOmitField {
}
/*
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*
* Created on 16. September 2005 by Mauro Talevi
*/
package com.thoughtworks.xstream.annotations;

import java.lang.annotation.ElementType;

```

```

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 *
 * @author Chung-Onn Cheong
 * @deprecated As of 1.3, use @XStreamImplicit at field level
 */
@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.TYPE)
public @interface XStreamImplicitCollection {
    String value(); //fieldName
    String item() default ""; //itemfieldName
}
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 *
 * Created on 01. December 2006 by Joerg Schaible
 */
package com.thoughtworks.xstream.annotations;

```

```

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * An annotation for marking a field as an implicit collection or array.
 *
 * @author Lucio Benfante
 * @author Joerg Schaible
 * @since 1.2.2
 */
@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.FIELD)
public @interface XStreamImplicit {
    /**
     * Element name of the implicit collection.
     */
    String itemFieldName() default "";
    /**
     * Field name of map entries that are used as key for the element in the implicit map.
     */
}

```

```

    * @since 1.4
    */
    String keyFieldName() default "";
}

```

## 8.265 xtend-lib 2.4.3

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```

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 *****/
package org.eclipse.xtend.lib.macro.declaration;

import com.google.common.annotations.Beta;

/**
 * @author Sven Efftinge
 */
@Beta
public interface PrimitiveType extends Type {
    /**
     * Returns the kind of primitive type that this object represents.
     *
     * @return the kind of primitive type that this object represents
     */
    Kind getKind();

    /**
     * An enumeration of the different kinds of primitive types.
     */
    enum Kind {
        /** The primitive type boolean */
        BOOLEAN,
        /** The primitive type byte */
        BYTE,
        /** The primitive type short */

```

```

SHORT,
/** The primitive type <tt>int</tt> */
INT,
/** The primitive type <tt>long</tt> */
LONG,
/** The primitive type <tt>char</tt> */
CHAR,
/** The primitive type <tt>float</tt> */
FLOAT,
/** The primitive type <tt>double</tt> */
DOUBLE
}
}

```

## 8.266 xtext-xbase 2.4.3

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# 8.267 yang-binding 0.6.3-Helium-SR1

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```
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 */
package org.opendaylight.yangtools.yang.binding;

import java.io.IOException;

/**
 * SPI-level contract for implementations of {@link DataObjectSerializer}.
 * The contract is kept between implementation of {@link DataObjectSerializerRegistry},
 * which maintains the lookup context required for recursive serialization.
 *
 * FIXME: this interface needs to be moved into .spi, but due to classpath funkyness
 * of OSGi, that change has to be carefully orchestrated to ensure proper imports
 * exist in all generated packages. One avenue how to achieve that is to move
 * {@link YangModuleInfo} and modify code generator to add a static field
 * to all generated classes which will point to the per-model YangModuleInfo
 * (currently all users of it have to walk the package hierarchy, so that
 * is an improvement in and of itself).
 */
public interface DataObjectSerializerImplementation {
    /**
     *
     * Writes stream events for supplied data object to provided stream.
     *
     * DataObjectSerializerRegistry may be used to lookup serializers
     * for other generated classes in order to support writing
     * their events.
     */
    void serialize(DataObjectSerializerRegistry reg, DataObject obj, BindingStreamEventWriter stream) throws
    IOException;
}
/*
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 */
```

```

*/
package org.opendaylight.yangtools.yang.binding;

import org.opendaylight.yangtools.util.HashCodeBuilder;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.IdentifiableItem;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.Item;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.PathArgument;

import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.Iterables;

final class InstanceIdentifierBuilderImpl<T extends DataObject> implements
InstanceIdentifier.Builder<T> {
    private final ImmutableList.Builder<PathArgument> pathBuilder = ImmutableList.builder();
    private final HashCodeBuilder<PathArgument> hashBuilder;
    private final Iterable<? extends PathArgument> basePath;
    private boolean wildcard = false;
    private PathArgument arg = null;

    InstanceIdentifierBuilderImpl() {
        this.hashBuilder = new HashCodeBuilder<>();
        this.basePath = null;
    }

    InstanceIdentifierBuilderImpl(final PathArgument item, final Iterable<? extends PathArgument> pathArguments,
final int hash, final boolean wildcard) {
        this.hashBuilder = new HashCodeBuilder<>(hash);
        this.basePath = pathArguments;
        this.wildcard = wildcard;
        this.arg = item;
    }

    @Override
    public int hashCode() {
        return hashBuilder.toInstance();
    }

    @SuppressWarnings("unchecked")
    <N extends DataObject> InstanceIdentifierBuilderImpl<N> addNode(final Class<N> container) {
        arg = new Item<N>(container);
        hashBuilder.addArgument(arg);
        pathBuilder.add(arg);

        if (Identifiable.class.isAssignableFrom(container)) {
            wildcard = true;
        }
    }

```

```

    return (InstanceIdentifierBuilderImpl<N>) this;
}

@SuppressWarnings("unchecked")
<N extends DataObject & Identifiable<K> , K extends Identifier<N>> InstanceIdentifierBuilderImpl<N>
addNode(final Class<N> listItem, final K listKey) {
    arg = new IdentifiableItem<N, K>(listItem, listKey);
    hashBuilder.addArgument(arg);
    pathBuilder.add(arg);
    return (InstanceIdentifierBuilderImpl<N>) this;
}

@Override
public <N extends ChildOf<? super T>> InstanceIdentifierBuilderImpl<N> child(final Class<N> container) {
    return addNode(container);
}

@Override
public <N extends Identifiable<K> & ChildOf<? super T>, K extends Identifier<N>>
InstanceIdentifierBuilderImpl<N> child(final Class<N> listItem, final K listKey) {
    return addNode(listItem, listKey);
}

/**
 * Build an identifier which refers to a specific augmentation of the current InstanceIdentifier referenced by
 * the builder
 *
 * @param container
 * @param <N>
 * @return
 */
@Override
public <N extends DataObject & Augmentation<? super T>> InstanceIdentifierBuilderImpl<N>
augmentation(final Class<N> container) {
    return addNode(container);
}

@Override
public InstanceIdentifier<T> build() {
    Preconditions.checkState(arg != null, "No path arguments present");

    final Iterable<PathArgument> pathArguments;
    if (basePath == null) {
        pathArguments = pathBuilder.build();
    } else {
        pathArguments = Iterables.concat(basePath, pathBuilder.build());
    }
}

```

```

    @SuppressWarnings("unchecked")
    final InstanceIdentifier<T> ret = (InstanceIdentifier<T>) InstanceIdentifier.trustedCreate(arg, pathArguments,
hashBuilder.toInstance(), wildcard);
    return ret;
}

@Override
public InstanceIdentifier<T> toInstance() {
    return build();
}
}
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 */
package org.opendaylight.yangtools.yang.binding;

import java.util.Set;
import java.util.concurrent.Future;

import org.opendaylight.yangtools.yang.common.RpcResult;

public interface RpcImplementation {

    // Fixme: Change to RpcInput
    Set<Class<? extends DataContainer>> getSupportedInputs();

    // Fixme: Change to RpcInput
    <T extends DataContainer> Future<RpcResult<?>> invoke(Class<T> type, T input);
}

```

## 8.268 yang-common 0.6.3-Helium-SR1

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```

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 */

package org.opendaylight.yangtools.yang.common;

```

```

import java.text.SimpleDateFormat;

public class SimpleDateFormatUtil {

    private static final ThreadLocal<SimpleDateFormat> REVISION_FORMAT = new
ThreadLocal<SimpleDateFormat>() {

        protected SimpleDateFormat initialValue() {
            return new SimpleDateFormat("yyyy-MM-dd");
        };

        public void set(SimpleDateFormat value) {
            throw new UnsupportedOperationException();
        };

    };

    public static SimpleDateFormat getRevisionFormat() {
        return REVISION_FORMAT.get();
    }
}

```

## 8.269 yang-ext 2013.09.07.4.1-Helium-SR1

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## 8.270 yangtools-binding-data-codec 0.6.2- Helium

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# 8.271 yangtools-binding-generator-api 0.6.2- Helium

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## 8.272 yangtools-binding-generator-impl 0.6.2-Helium

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## 8.273 yangtools-binding-generator-spi 0.6.2-Helium

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## 8.274 yangtools-binding-generator-util 0.6.2-Helium

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## 8.275 yangtools-binding-model-api 0.6.2- Helium

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# 8.276 yangtools-binding-type-provider 0.6.2- Helium

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## 8.277 yangtools-concepts 0.6.2-Helium

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## 8.278 yangtools-features-yangtools-feature

### 0.6.2-Helium

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# 8.279 yangtools-model-ietf-inet-types

## 2010.09.24.4-Helium

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## 8.280 yangtools-model-ietf-restconf

### 2013.10.19.1-Helium

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## 8.281 yangtools-model-ietf-topology

### 2013.10.21.2-Helium

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# 8.282 yangtools-model-ietf-yang-types

## 2010.09.24.4-Helium

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## 8.283 yangtools-model-ietf-yang-types-

### 20130715 2013.07.15.1-Helium

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## 8.284 yangtools-model-opendaylight-l2-types

### 2013.08.27.4-Helium

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# 8.285 yangtools-model-yang-ext 2013.09.07.4- Helium



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## 8.286 yangtools-object-cache-api 0.6.2-

### Helium

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## 8.287 yangtools-object-cache-guava 0.6.2-

### Helium

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# 8.288 yangtools-object-cache-noop 0.6.2- Helium

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## 8.289 yangtools-restconf-client-api 0.6.2-

### Helium

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## 8.290 yangtools-restconf-client-impl 0.6.2-

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# 8.291 yangtools-restconf-common 0.6.2- Helium

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## 8.292 yangtools-restconf-jaxrs-api 0.6.2-

### Helium

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## 8.293 yangtools-restconf-util 0.6.2-Helium

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# 8.294 yangtools-thirdparty-antlr4-rumtione-osgi-nohead 4.0

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## 8.295 yangtools-thirdparty-xtend-lib-osgi

### 2.4.3

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## 8.296 yangtools-util 0.6.2-Helium

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## 8.297 yangtools-websocked-client 0.6.2- Helium

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## 8.298 yangtools-yang-binding 0.6.2-Helium

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# 8.299 yangtools-yang-common 0.6.2-Helium

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## 8.300 yangtools-yang-data-api 0.6.2-Helium

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## 8.301 yangtools-yang-data-codec-gson 0.6.2- Helium

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# 8.302 yangtools-yang-data-composite-node

## 0.6.2-Helium

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## 8.303 yangtools-yang-data-impl 0.6.2-Helium

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## 8.304 yangtools-yang-data-operations 0.6.2- Helium

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# 8.305 yangtools-yang-data-util 0.6.2-Helium

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## 8.306 yangtools-yang-maven-plugin-spi 0.6.2- Helium

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## 8.307 yangtools-yang-model-api 0.6.2-Helium

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# 8.310 yangtools-yang-parser-impl 6.2-Helium

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## 8.311 zeroc:ice:jar 3.5.1

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