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- LZ4 and xxHash 1.2.0
- lz4/gplv2_programs r131 :1
- m4 1.4.17 :2ubuntu1
- mail (JavaMail) 1.5.5
- make 4.0
- mawk 1.3.3-17
- mesa 10.3.2-1+deb8u1
- Mesos 0.22.1
- Metrics Core 3.1.0
- metrics-annotation 2.2.0
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For hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/gtest
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Chad Walters <chad@powerset.com>
-TJSONProtocol for C++ and Java
Nitay <nitayj@gmail.com>
-Support for "make check"

William Morgan <w@adap.tv>
-Miscellaneous Ruby improvements

Ben Maurer <bmaurer@andrew.cmu.edu>
-Restructuring the way Autoconf is used

Patrick Collison <patrick@collison.ie>
-Smalltalk bindings

Dave Simpson <dave@powerset.com>
-Better support for connection tracking in the C++ server
-Miscellaneous fixes

Igor Afanasyev <afan@evernote.com>
-Perl HttpClient and bugfixes

Todd Berman <tberman@imeem.com>
-MinGW port of the compiler
-C# bindings
-MS build task

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Release 20070917
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Dave Engberg <engberg@gmail.com>
-JavaBean/JavaDoc enhancements

Andrew McGeachie <geechorama@gmail.com>
-Cocoa/Objective-C support

Ben Maurer <bmaurer@andrew.cmu.edu>
-Python performance enhancements, fastbinary support

Andrew Lutomirski <andy@luto.us>
-Added optional/required keywords for C++ objects
-Added comparison operators for C++ structs

Johan Oskarsson <johan@oksarsson.nu>
-Java findbugs compliance fixes

Paul Saab <ps@powerset.com>
-IPv6 support for TSocket in C++/Python
Kevin Clark <kevin@powerset.com>
-Significant overhaul of Ruby code generation and servers

Simon Forman <sforman@gmail.com>
-TProcessorFactory abstraction for Java servers

Jake Luciani <jakers@gmail.com>
-Perl code generation, libraries, test code

David Reiss <dreiss@stanford.edu>
-strings.h include fix for bzero
-endianness fixes on TBinaryProtocol double serialization
-improved ntohl, htonl implementation

Dan Li <dto@dev.java.net>
-Java TestServer and Tutorial Fixes

Kevin Ko <kevin.s.ko@gmail.com>
-Fix for unnecessary std::string copy construction in Protocol/Exception

Paul Querna <pquerna@apache.org>
-Autoconf error message fix for libevent detection
-clock_gettime implementation for OSX

----------------
Release 20070401
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    compiler/cpp/src/thrift/generate/t_hs_generator.cc
    compiler/cpp/src/thrift/generate/t_java_generator.cc
    compiler/cpp/src/thrift/generate/t_ocaml_generator.cc
    compiler/cpp/src/thrift/generate/t_perl_generator.cc
    compiler/cpp/src/thrift/generate/t_php_generator.cc
    compiler/cpp/src/thrift/generate/t_py_generator.cc
    compiler/cpp/src/thrift/generate/t_rb_generator.cc
    compiler/cpp/src/thrift/generate/t_st_generator.cc
    compiler/cpp/src/thrift/generate/t_xsd_generator.cc
    compiler/cpp/src/thrift/main.cc
    compiler/cpp/src/thrift/parse/t_field.h
    compiler/cpp/src/thrift/parse/t_program.h
    compiler/cpp/src/thrift/platform.h
    compiler/cpp/src/thrift/thriftl.ll
    compiler/cpp/src/thrift/thrifty.yy
    lib/csharp/src/Protocol/TBinaryProtocol.cs
    lib/csharp/src/Protocol/TField.cs
    lib/csharp/src/Protocol/TList.cs
    lib/csharp/src/Protocol/TMap.cs
    lib/csharp/src/Protocol/TMessage.cs
    lib/csharp/src/Protocol/TMessageType.cs
    lib/csharp/src/Protocol/TProtocol.cs
    lib/csharp/src/Protocol/TProtocolException.cs
    lib/csharp/src/Protocol/TProtocolFactory.cs
    lib/csharp/src/Protocol/TProtocolUtil.cs
    lib/csharp/src/Server/TServer.cs
    lib/csharp/src/Server/TThreadPoolServer.cs
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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

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lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
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lib/st/README
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L. Peter Deutsch
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/*

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1.42 apache-commons-daemon 1.0.13 :6.el7

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

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfcf2bb5bb6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

  Author: Julio Merino <jmmv84@gmail.com>
1.79 bind 9.9.5

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

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7f2bb56.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

1.80 binutils 2.25.1
1.80.1 Available under license:

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to
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(This file is under construction.)—*- text -*.-

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

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

+++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlonson maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.
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1.81 bolt git :r0.0

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1.82 boost 1.59.0 :1.59

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

HISTORY -

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

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

Some other contributors:

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

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

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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   libbz2.dll test program.
   by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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   usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

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package com.twitter.chill.java;

import com.esotericsoftware.kryo.serializers.JavaSerializer;
import com.twitter.chill.IKryoRegistrar;
import com.twitter.chill.SingleRegistrar;
import java.text.SimpleDateFormat;

/** This class fails with the Fields serializer.
 * If it is a perf bottleneck, we could write a Kryo serializer
 */
public class SimpleDateFormatSerializer extends JavaSerializer {
    static public IKryoRegistrar registrar() {
        return new SingleRegistrar(SimpleDateFormat.class, new SimpleDateFormatSerializer());
    }
}

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# Compress LZF

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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

1.149 config 1.2.1

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1.151 coreutils 8.22 :r0.0

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.
The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.153 cracklib 2.9.2

1.153.1 Available under license :

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under= r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> > >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> > libraries under
> > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> > -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the 
GPL to use the library, too, which would be sufficient for the packages 
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Fryssinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL...
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make 
the change now ?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

---------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
---------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSV(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSV(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipvps.cc.umr.edu with SMTP; 1 Oct 2007 16:59:54 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPT id 191Gxtp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTPT id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtpt (Exim 4.50)
id 1eOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1ldac0afpfl2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
                        <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
                        <1b1b3fd80710010908k1ldac0afpfl2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56F6FEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
>
> -------- Forwarded message --------
>
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

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for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
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rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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

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

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

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.

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

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

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

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

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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:

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   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
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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
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this License, whose permissions for other licensees extend to the
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exercise the right to control the distribution of derivative or
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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.

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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FlashPoint Driver Developer's Kit
Version 1.0

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

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

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

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

Linux driver for the IDT77201 NICStAR PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996
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Automated Testing Framework

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.173 disruptor-3.3.2 3.3.2

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Gocheck - A rich testing framework for Go

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
 - Copyright (C) Andrew Tridgell 2005
 + Copyright (C) Andrew Tridgell 1999-2005
 + Copyright (C) Jeremy Allison 2000-2006
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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

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

image:$(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f../../$(BSD_LIB)

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subsdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:
Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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1.182 Eclipse ECJ 4.4.1

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1.183 Eclipse GEF 3.10.1

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/* Software floating-point emulation.

   Convert a 32bit unsigned integer to IEEE double

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Version 2, June 1991

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

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

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   (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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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 @dfn{Lesser} General Public License because it does @emph{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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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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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.

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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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(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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@page

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`Gnomovision' (which makes passes at compilers) written by James Hacker.
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Ty Coon, President of Vice
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### 1.215 glib-2.0 2.42.1

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```c
/*
 * Perl-Compatible Regular Expressions
 */

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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*/

#ifndef _PCRE_H
#define _PCRE_H

#undef _PCRE_H
#define _PCRE_H
```
/* The current PCRE version information. */

#define PCRE_MAJOR 8
#define PCRE_MINOR 31
#define PCRE_PRERELEASE
#define PCRE_DATE 2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are imported have to be identified as such. When building PCRE, the appropriate export setting is defined in pcre_internal.h, which includes this file. So we don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
  #ifndef PCRE_EXP_DECL
    # define PCRE_EXP_DECL extern __declspec(dllimport)
  #endif
  # ifdef __cplusplus
    #ifndef PCRECPP_EXP_DECL
      # define PCRECPP_EXP_DECL extern __declspec(dllimport)
    #endif
    #ifndef PCRECPP_EXP_DEFN
      # define PCRECPP_EXP_DEFN __declspec(dllimport)
    #endif
  # endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
  # ifdef __cplusplus
    # define PCRE_EXP_DECL extern "C"
  # else
    # define PCRE_EXP_DECL extern
  # endif
#endif

#ifndef __cplusplus
  # ifdef PCRECPP_EXP_DECL
    # define PCRECPP_EXP_DECL extern
  # endif
  # ifndef PCRECPP_EXP_DEFN
    # define PCRECPP_EXP_DEFN
  # endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined; it is needed here for malloc. */
#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are both, so we keep them all distinct. However, almost all the bits in the options word are now used. In the long run, we may have to re-use some of the compile-time only bits for runtime options, or vice versa. In the comments below, "compile", "exec", and "DFA exec" mean that the option is permitted to be set for those functions; "used in" means that an option may be set only for compile, but is subsequently referenced in exec and/or DFA exec. Any of the compile-time options may be inspected during studying (and therefore JIT compiling). */

#define PCRE_CASELESS 0x00000001 /* Compile */
#define PCRE_MULTILINE 0x00000002 /* Compile */
#define PCRE_DOTALL 0x00000004 /* Compile */
#define PCRE_EXTENDED 0x00000008 /* Compile */
#define PCRE_ANCHORED 0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA 0x00000040 /* Compile */
#define PCRE_NOTBOL 0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL 0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY 0x00000200 /* Compile */
#define PCRE_NOTEMPTY 0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8 0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16 0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL 0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE 0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES 0x00080000 /* Compile */
#define PCRE_NEWLINE_CR 0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF 0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */

#endif /* __cplusplus */
#define PCRE_NEWLINE_ANYCRLF 0x00050000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF 0x00080000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x00100000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x00200000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x00400000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x00800000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x01000000 /* Exec, DFA exec */
#define PCRE_UCP 0x02000000 /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH (-1) /* Never used by PCRE itself */
#define PCRE_ERROR_NULL (-2) /* Same for 8/16 */
#define PCRE_ERROR_BADOPTION (-3) /* Same for 8/16 */
#define PCRE_ERROR_BADMAGIC (-4) /* Same for 8/16 */
#define PCRE_ERROR_UNKNOWN_OPCODE (-5) /* For backward compatibility */
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15) /* Same for 8/16 */
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17) /* Same for 8/16 */
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_DFA_RECURSIONLIMIT (-21)
#define PCRE_ERROR_DFA_BADRESTART (-22) /* No longer actually used */
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET (-24)
#define PCRE_ERROR_SHORTUTF8 (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

/* Specific error codes for UTF-8 validity checks */
#define PCRE_UTF8_ERR0              0
#define PCRE_UTF8_ERR1              1
#define PCRE_UTF8_ERR2              2
#define PCRE_UTF8_ERR3              3
#define PCRE_UTF8_ERR4              4
#define PCRE_UTF8_ERR5              5
#define PCRE_UTF8_ERR6              6
#define PCRE_UTF8_ERR7              7
#define PCRE_UTF8_ERR8              8
#define PCRE_UTF8_ERR9              9
#define PCRE_UTF8_ERR10             10
#define PCRE_UTF8_ERR11             11
#define PCRE_UTF8_ERR12             12
#define PCRE_UTF8_ERR13             13
#define PCRE_UTF8_ERR14             14
#define PCRE_UTF8_ERR15             15
#define PCRE_UTF8_ERR16             16
#define PCRE_UTF8_ERR17             17
#define PCRE_UTF8_ERR18             18
#define PCRE_UTF8_ERR19             19
#define PCRE_UTF8_ERR20             20
#define PCRE_UTF8_ERR21             21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0              0
#define PCRE_UTF16_ERR1              1
#define PCRE_UTF16_ERR2              2
#define PCRE_UTF16_ERR3              3
#define PCRE_UTF16_ERR4              4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS            0
#define PCRE_INFO_SIZE               1
#define PCRE_INFO_CAPTURECOUNT       2
#define PCRE_INFO_BACKREFMAX         3
#define PCRE_INFO_FIRSTBYTE          4
#define PCRE_INFO_FIRSTCHAR          4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE         5
#define PCRE_INFO_LASTLITERAL        6
#define PCRE_INFO_NAMEENTRYSIZE      7
#define PCRE_INFO_NAMECOUNT          8
#define PCRE_INFO_NAMETABLE          9
#define PCRE_INFO_STUDYSIZE         10
#define PCRE_INFO_DEFAULT_TABLES    11
#define PCRE_INFO_OKPARTIAL         12
#define PCRE_INFO_JCHANGED          13
#define PCRE_INFO_HASCRRORLF         14
#define PCRE_INFO_MINLENGTH         15
#define PCRE_INFO_JIT               16
#define PCRE_INFO_JITSIZE           17
#define PCRE_INFO_MAXLOOKBEHIND     18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8                    0
#define PCRE_CONFIG_NEWLINE                 1
#define PCRE_CONFIG_LINK_SIZE               2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD  3
#define PCRE_CONFIG_MATCH_LIMIT             4
#define PCRE_CONFIG_STACKRECURSE            5
#define PCRE_CONFIG_UNICODE_PROPERTIES      6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION   7
#define PCRE_CONFIG_BSR                     8
#define PCRE_CONFIG_JIT                     9
#define PCRE_CONFIG_UTF16                  10
#define PCRE_CONFIG_JITTARGET              11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_STUDY_JIT_COMPILE                0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE   0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE   0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA             0x0001
#define PCRE_EXTRA_MATCH_LIMIT            0x0002
#define PCRE_EXTRA_CALLOUT_DATA           0x0004
#define PCRE_EXTRA_TABLES                 0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION  0x0010
#define PCRE_EXTRA_MARK                   0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT         0x0040

/* Types */

struct real_pcre;            /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16;          /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;
struct real_pcre_jit_stack;  /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain a 16 bit wide signed data type. Otherwise it can be a dummy data type since pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be replaced with a custom type. For conventional use, the public interface is a const char *. */
#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in such as way as to be extensible. Always add new fields at the end, in order to remain compatible. */
typedef struct pcre_extra {
  unsigned long int flags;  /* Bits for which fields are set */
  void *study_data;  /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data;  /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  unsigned char **mark; /* For passing back a mark pointer */
  void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */
typedef struct pcre16_extra {
  unsigned long int flags;  /* Bits for which fields are set */
  void *study_data;  /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data;  /* Data passed back in callouts */
} pcre16_extra;
const unsigned char *tables; /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark; /* For passing back a mark pointer */
void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
  int version; /* Identifies version of block */
  /* ------------------------ Version 0 ------------------------------- */
  int callout_number; /* Number compiled into pattern */
  int *offset_vector; /* The offset vector */
  PCRE_SPTR subject; /* The subject being matched */
  int subject_length; /* The length of the subject */
  int start_match; /* Offset to start of this match attempt */
  int current_position; /* Where we currently are in the subject */
  int capture_top; /* Max current capture */
  int capture_last; /* Most recently closed capture */
  void *callout_data; /* Data passed in with the call */
  /* ------------------- Added for Version 1 -------------------------- */
  int pattern_position; /* Offset to next item in the pattern */
  int next_item_length; /* Length of next item in the pattern */
  /* ------------------- Added for Version 2 -------------------------- */
  const unsigned char *mark; /* Pointer to current mark or NULL */
  /* ------------------------------------------------------------------ */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
  int version; /* Identifies version of block */
  /* ------------------------ Version 0 ------------------------------- */
  int callout_number; /* Number compiled into pattern */
  int *offset_vector; /* The offset vector */
  PCRE_SPTR16 subject; /* The subject being matched */
  int subject_length; /* The length of the subject */
  int start_match; /* Offset to start of this match attempt */
  int current_position; /* Where we currently are in the subject */
  int capture_top; /* Max current capture */
  int capture_last; /* Most recently closed capture */
  void *callout_data; /* Data passed in with the call */
  /* ------------------- Added for Version 1 -------------------------- */
  int pattern_position; /* Offset to next item in the pattern */
  int next_item_length; /* Length of next item in the pattern */
  /* --------------- Added for Version 2 ------------------------------ */
} pcre16_callout_block;
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */

/* Indirection for store get and free functions. These can be set to alternative malloc/free functions if required. Special ones are used in the non-recursive case for "frames". There is also an optional callout function that is triggered by the (?) regex item. For Virtual Pascal, these definitions have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else   /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);
#endif  /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */
typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
        const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
        const unsigned char *);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */
PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
    pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
    pcre16_jit_callback, void *);

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

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End

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Version 2, June 1991

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

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1.216 glibc 2.19-18+deb8u1

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status
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1.218 gnupg 1.4.18-7

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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******************************************************************************
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)

David Woodhouse *dwmw2 [at] infradead.org*
DTLS 0.9 implementation.

Olga Smolenchuk *olyasib12 [at] gmail.com*
DTLS/TLS heartbeat implementation.

Ilya Tumaykin *itumaykin [at] gmail.com*
Elliptic curve support improvements (wmNAF implementation and others).
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1.226 go-systemd 15

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1.229 golang 1-5
1.229.1 Available under license :
Source: https://go.googlecode.com/hg/

Files: *
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Files: include/*, src/lib9/*, src/libbio/*, src/pkg/runtime/386/*,
src/libmach/*, src/pkg/runtime/arm/vlop.s, src/pkg/runtime/arm/vlrt.c,
src/pkg/runtime/arm/memset.s, src/pkg/runtime/arm/memmove.s,
src/pkg/runtime/amd64/memmove.s, src/pkg/runtime/amd64/memmove.s,
src/pkg/math/fltasm_amd64.s, src/cmd/6c/txt.c, src/cmd/gopack/ar.c,
src/cmd/id/lib.[ch], src/cmd/6a/a.[yh], src/cmd/6a/lex.c,
src/cmd/5g/gobj.c, src/cmd/5g/list.c, src/cmd/5g/gsubr.c,
src/cmd/5g/opt.h, src/cmd/8c/*, src/cmd/goyacc/goyacc.go,
src/cmd/5l/*, src/cmd/6g/reg.c, src/cmd/6g/gobj.c,
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Files: src/cmd/prof/gopprof
Origin: based on src/pprof from google-perftools
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Notes:
This is a copy of http://google-perftools.googlecode.com/svn/trunk/src/pprof
with local modifications to handle generation of SVG images and
the Go-style pprof paths. These modifications will probably filter
back into the official source before long.
It's convenient to have a copy here because we need just the one
Perl script, not all the C++ libraries that surround it.

Files: src/pkg/runtime/tiny/bootblock
Origin: Xv6 rev3
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Massachusetts Institute of Technology
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Files: src/pkg/debug/dwarf/testdata/typedef.macho,
src/pkg/debug/dwarf/testdata/typedef.elf
Source: src/pkg/debug/dwarf/testdata/typedef.c
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Files: src/pkg/debug/macho/testdata/gcc-amd64-darwin-exec-debug,
src/pkg/debug/macho/testdata/gcc-386-darwin-exec,
src/pkg/debug/macho/testdata/gcc-amd64-darwin-exec,
src/pkg/debug/elf/testdata/go-relocation-test-gcc424-x86-64.o,
src/pkg/debug/elf/testdata/gcc-amd64-linux-exec,
src/pkg/debug/elf/testdata/go-relocation-test-gcc441-x86.o,
src/pkg/debug/elf/testdata/gcc-386-freebsd-exec,
src/pkg/debug/elf/testdata/go-relocation-test-gcc441-x86-64.o
Source: ?

Files: src/pkg/debug/elf/elf.go, src/cmd/ld/elf.h
Origin: FreeBSD src/sys/sys/elf{32,64,_.common}.h, src/sys/*/include/elf.h
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2001 David E. O'Brien
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Files: src/pkg/math/log1p.go
Origin: Translated and simplified from FreeBSD /usr/src/lib/msun/src/s_log1p.c
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The original C code, the long comment, and the constants below are from FreeBSD's /usr/src/lib/msun/src/s_log1p.c
and came with this notice. The go code is a simplified version of the original C.

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Files: src/pkg/image/jpeg/idct.go
Origin: Translated from idct.c in the MPEG-2 (ISO/IEC 13818-4) technical report video software verifier (mpeg2decode)
version 960109
Copyright: 1996, MPEG Software Simulation Group. All Rights Reserved.
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Files: src/pkg/exp/spacewar/pdp1.go, src/pkg/exp/spacewar/spacewar.go
Origin: Translated from the Java emulator pdp1.java in Spacewar!
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Files: src/pkg/exp/spacewar/code.go
Origin: The original Spacewar!
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This file contains the assembly language and machine code for Spacewar!, the original PDP-1 video game. It is downloaded from http://spacewar.oversigma.com/sources/sources.zip which has
the following notice at http://spacewar.oversigma.com/:

Spacewar! was conceived in 1961 by Martin Graetz, Stephen Russell, and Wayne Wiitanen. It was first realized on the PDP-1 in 1962 by Stephen Russell, Peter Samson, Dan Edwards, and Martin Graetz, together with Alan Kotok, Steve Piner, and Robert A Saunders. Spacewar! is in the public domain, but this credit paragraph must accompany all distributed versions of the program.

This is the original version! Martin Graetz provided us with a printed version of the source. We typed in in again - it was about 40 pages long - and re-assembled it with a PDP-1 assembler written in PERL. The resulting binary runs on a PDP-1 emulator written as a Java applet. The code is extremely faithful to the original. There are only two changes. 1) The spaceships have been made bigger and 2) The overall timing has been special cased to deal with varying machine speeds.

The "a", "s", "d", "f" keys control one of the spaceships. The "k", "l", ";", "'" keys control the other. The controls are spin one way, spin the other, thrust, and fire.

Barry Silverman
Brian Silverman
Vadim Gerasimov

Files: src/pkg/exp/4s/xs.go, src/pkg/exp/4s/data.go
Origin: Derived from Plan 9's /sys/src/games/xs.c
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Files: src/cmd/goyacc/units.txt
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Files: src/cmd/goyacc/units.y
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This package and spacewar.go implement a simple PDP-1 emulator complete enough to run the original PDP-1 video game Spacewar! See nacl/README for details on running them.

They are a translation of the Java emulator pdp1.java in http://spacewar.oversigma.com/sources/sources.zip.

See also the PDP-1 handbook at http://www.dbit.com/~greeng3/pdp1/pdp1.html

http://spacewar.oversigma.com/readme.html begins:

Spacewar! was conceived in 1961 by Martin Graetz, Stephen Russell, and Wayne Wiitanen. It was first realized on the PDP-1 in 1962 by Stephen Russell, Peter Samson, Dan Edwards, and Martin Graetz, together with Alan Kotok, Steve Piner, and Robert A Saunders.

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

http://www.ijs.si/software/snprintf/.

. The `grn’ preprocessor, written by Barry Roitblat <barry@rentonww.com>
and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
Macro Packages
---------------

- The `-mdoc` macro set, using the BSD license.
  
  `tmac/doc.tmac`
  `tmac/doc-old.tmac`
  `tmac/doc-common`
  `tmac/doc-ditroff`
  `tmac/doc-nroff`
  `tmac/doc-syms`
  `tmac/groff_mdoc.man`

- The `-me` macro set, using the BSD license.
  
  `tmac/e.tmac`
  `tmac/groff_me.man`
  `doc/meintro.me`
  `doc/meref.me`

Hyphenation Patterns
---------------------

- The file `tmac/hyphen.us` is identical to the file `hyphen.tex`, part of
  the TeX system written by Donald E. Knuth; the master file can be found
  at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

  It has been renamed for consistency, i.e., to make patterns available
  under the filenames `hyphen.<language>`, e.g. `hyphen.de` or
  `hyphen.uk`.

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- The file `tmac/hyphen.fr` contains the same patterns as the file
  `frhyph.tex` (for TeX), which can be found at

  http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

   http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

   http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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It is now maintained by Ted Harding <ted.harding@nessie.mcc.ac.uk> and
Werner Lemberg <wl@gnu.org>.

This Debian package was previously maintained by Fabrizio Polacco
<fpolacco@debian.org>.
It is now maintained by Colin Watson <cjwatson@debian.org>.

The original tarball came from <URL:ftp://groff.ffii.org/pub/groff/>.
and was simply renamed to groff_1.20.1.orig.tar.gz.

Some patches have been applied to groff outside the debian directory.

The Debian diff also appends /usr/share/groff/tmac to the default macro path for compatibility with versions of groff earlier than 1.17 (patch by Colin Watson).

========================================================================

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   Written by James Clark (jjc@jclark.com)

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========================================================================

Included in this release are implementations of troff, pic, eqn, tbl, grn, refer, -man, -mdoc, and -ms macros, and drivers for PostScript, TeX dvi format, HP LaserJet 4 printers, Canon CAPSL printers, HTML format (still alpha), and typewriter-like devices. Also included is a modified version of the Berkeley -me macros, an enhanced version of the X11 xditview previewer, and an implementation of the -mm macros contributed by Joergen Haegg (jh@axis.se).

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I e-mailed the upstream maintainer to clarify the intent of this. Here is
the relevant part of the reply:

From: Werner LEMBERG <wl@gnu.org>
To: cjwatson@debian.org
Subject: Re: Clarifying the scope of groff/LICENSE
Date: Thu, 18 Nov 2004 00:19:52 +0100 (CET)
> Since "compatible with the GPL" means to all intents and purposes
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> assume that groff/LICENSE grants me permission to distribute
> groff/doc/groff.texinfo and groff/doc/pic.ms under the terms of the
> GPLv?

This is the intention, of course.

> If not, is the FDL thing from yesteryear going to be resolved some
> other way? I just want to make sure that I don't get forced to
> remove the groff manual, since that would really diminish the
> quality of the Debian package IMHO.

Sigh. I haven't found time to revert the FDL stuff back to GPL. It
basically affects only Bernd Warken and me, and we have both agreed to
return to GPL in case FDL makes problems.

(Note that this e-mail predates the current wording in LICENSES.)

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The gxditview output device was based on X11's xditview program and thus has the X licence.

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=========================================================================

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For the following files in the groovy-jsr223 component:

src/main/org/codehaus/groovy/jsr223/GroovyCompiledScript.java
src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java
src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineImpl.java

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1.245 Gson 2.3.1

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package com.google.gson.internal;

import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
public final class Primitives {
  private Primitives() {}

  /** A map from primitive types to their corresponding wrapper types. */
  private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

  /** A map from wrapper types to their corresponding primitive types. */
  private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

  // Sad that we can't use a BiMap. :(

  static {
    Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>();
    Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>();
    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);
  }
}
backward.put(value, key);
}

/**
* Returns true if this type is a primitive.
*/
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
* Returns true if type is one of the nine
* primitive-wraper types, such as Integer.
* @see Class#isPrimitive
*/
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
            $Gson$Preconditions.checkNotNull(type));
}

/**
* Returns the corresponding wrapper type of type if it is a primitive
* type; otherwise returns type itself. Idempotent.
* <pre>
*     wrap(int.class) == Integer.class
*     wrap(Integer.class) == Integer.class
*     wrap(String.class) == String.class
* </pre>
*/
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
            $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
* Returns the corresponding primitive type of type if it is a
* wrapper type; otherwise returns type itself. Idempotent.
* <pre>
*     unwrap(Integer.class) == int.class
*     unwrap(int.class) == int.class
*     unwrap(String.class) == String.class
* </pre>
*/
public static <T> Class<T> unwrap(Class<T> type) {

// cast is safe: long.class and Long.class are both of type Class<Long>
@SuppressWarnings("unchecked")
Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get($Gson$Preconditions.checkNotNull(type));
return (unwrapped == null) ? type : unwrapped;
}
}
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Version 2.0, January 2004

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1.248 gtk-doc-stub-native 2.24.25

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1.255 Guava 21.0

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 */

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

/**
For src/main/native/src/org/apache/hadoop/io/compress/lz4/lz4.c:

/*
LZ4 - Fast LZ compression algorithm
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For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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 */

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/**
 * LZ4 - Fast LZ compression algorithm
 */
Header File
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import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.job.impl.TaskAttemptImpl;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

@SuppressWarnings("rawtypes")
public class MapTaskAttemptImpl extends TaskAttemptImpl {

    private final TaskSplitMetaInfo splitInfo;

    public MapTaskAttemptImpl(TaskId taskId, int attempt,
            EventHandler eventHandler, Path jobFile,
            int partition, TaskSplitMetaInfo splitInfo, JobConf conf,
            TaskAttemptListener taskAttemptListener,
            Token<JobTokenIdentifier> jobToken,
            Credentials credentials, Clock clock,
            AppContext appContext) {
        super(taskId, attempt, eventHandler,
                taskAttemptListener, jobFile, partition, conf,
                taskAttemptListener, taskAttemptListener,
                Token<JobTokenIdentifier> jobToken,
                Credentials credentials, Clock clock,
                AppContext appContext);
        this.splitInfo = splitInfo;
    }

    @Override
    public Task createRemoteTask() {
        //job file name is set in TaskAttempt, setting it null here
        MapTask mapTask =
new MapTask("", TypeConverter.fromYarn(getID()), partition,
    splitInfo.getSplitIndex(), 1); // YARN doesn't have the concept of slots per task, set it as 1.
mapTask.setUser(conf.get(MRJobConfig.USER_NAME));
mapTask.setConf(conf);
return mapTask;

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 */
package org.apache.hadoop.mapred;

import java.io.IOException;
import java.net.InetSocketAddress;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeysPublic;
import org.apache.hadoop.ipc.ProtocolSignature;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.mapred.SortedRanges.Range;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.security.token.JobTokenSecretManager;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.TaskHeartbeatHandler;
import org.apache.hadoop.mapreduce.v2.app.job.Job;
import org.apache.hadoop.mapreduce.v2.app.job.Task;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptStatusUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.rm.RMHeartbeatHandler;
import org.apache.hadoop.mapreduce.v2.app.security.authorize.MRAMPolicyProvider;
import org.apache.hadoop.security.authorize.PolicyProvider;
import org.apache.hadoop.service.CompositeService;
import org.apache.hadoop.util.StringInterner;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;

/**
 * This class is responsible for talking to the task umbilical.
 * It also converts all the old data structures
 * to yarn data structures.
 */
@SuppressWarnings({"unchecked"})
public class TaskAttemptListenerImpl extends CompositeService
        implements TaskUmbilicalProtocol, TaskAttemptListener {

    private static final JvmTask TASK_FOR_INVALID_JVM = new JvmTask(null, true);
    private static final Log LOG = LogFactory.getLog(TaskAttemptListenerImpl.class);
    private AppContext context;
    private Server server;
    protected TaskHeartbeatHandler taskHeartbeatHandler;
    private RMHeartbeatHandler rmHeartbeatHandler;
    private long commitWindowMs;
    private InetSocketAddress address;
    private ConcurrentHashMap<WrappedJvmID, org.apache.hadoop.mapred.Task> jvmIDToActiveAttemptMap;
    private Set<WrappedJvmID> launchedJVMs = Collections.newSetFromMap(new ConcurrentHashMap<WrappedJvmID, Boolean>());
    private JobTokenSecretManager jobTokenSecretManager = null;

    public TaskAttemptListenerImpl(AppContext context,


protected void serviceInit(Configuration conf) throws Exception {
    registerHeartbeatHandler(conf);
    commitWindowMs = conf.getLong(MRJobConfig.MR_AM_COMMIT_WINDOW_MS,
        MRJobConfig.DEFAULT_MR_AM_COMMIT_WINDOW_MS);
    super.serviceInit(conf);
}

@override
protected void serviceStart() throws Exception {
    startRpcServer();
    super.serviceStart();
}

protected void registerHeartbeatHandler(Configuration conf) {
    taskHeartbeatHandler = new TaskHeartbeatHandler(context.getEventHandler(),
        context.getClock(), conf.getInt(MRJobConfig.MR_AM_TASK_LISTENER_THREAD_COUNT,
        MRJobConfig.DEFAULT_MR_AM_TASK_LISTENER_THREAD_COUNT));
    addService(taskHeartbeatHandler);
}

protected void startRpcServer() {
    Configuration conf = getConfig();
    try {
        server =
            new RPC.Builder(conf).setProtocol(TaskUmbilicalProtocol.class)
                .setInstance(this).setBindAddress("0.0.0.0")
                .setPort(0).setNumHandlers(
                    conf.getInt(MRJobConfig.MR_AM_TASK_LISTENER_THREAD_COUNT,
                    MRJobConfig.DEFAULT_MR_AM_TASK_LISTENER_THREAD_COUNT))
                .setVerbose(false).setSecretManager(jobTokenSecretManager)
            .build();

        // Enable service authorization?
        if (conf.getBoolean(
            CommonConfigurationKeysPublic.HADOOP_SECURITY_AUTHORIZATION,
            false)) {
            refreshServiceAcls(conf, new MRAMPolicyProvider());
        }
    }
server.start();
this.address = NetUtils.getConnectAddress(server);
} catch (IOException e) {
    throw new YarnRuntimeException(e);
}

void refreshServiceAcls(Configuration configuration,
    PolicyProvider policyProvider) {
    this.server.refreshServiceAcl(configuration, policyProvider);
}

@Override
protected void serviceStop() throws Exception {
    stopRpcServer();
    super.serviceStop();
}

protected void stopRpcServer() {
    if (server != null) {
        server.stop();
    }
}

@Override
public InetSocketAddress getAddress() {
    return address;
}

/**<br />
 * Child checking whether it can commit.<br />
 *<br />
 * Commit is a two-phased protocol. First the attempt informs the<br />
 * ApplicationMaster that it is<br />
 * [ @link #commitPending(TaskAttemptID, TaskStatus) ]. Then it repeatedly polls<br />
 * the ApplicationMaster whether it [ @link #canCommit(TaskAttemptID) ] This is<br />
 * a legacy from the centralized commit protocol handling by the JobTracker.<br />
 */
    @Override
public boolean canCommit(TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("Commit go/no-go request from " + taskAttemptID.toString());
    // An attempt is asking if it can commit its output. This can be decided
    // only by the task which is managing the multiple attempts. So redirect the
    // request there.
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);
taskHeartbeatHandler.progressing(attemptID);

// tell task to retry later if AM has not heard from RM within the commit
// window to help avoid double-committing in a split-brain situation
long now = context.getClock().getTime();
if (now - rmHeartbeatHandler.getLastHeartbeatTime() > commitWindowMs) {
    return false;
}

Job job = context.getJob(attemptID.getTaskId().getJobId());
Task task = job.getTask(attemptID.getTaskId());
return task.canCommit(attemptID);
}

/**
 * TaskAttempt is reporting that it is in commit_pending and it is waiting for
 * the commit Response
 *
 * <br/>
 * Commit it a two-phased protocol. First the attempt informs the
 * ApplicationMaster that it is
 * [.commitPending(TaskAttemptID, TaskStatus)]. Then it repeatedly polls
 * the ApplicationMaster whether it [.canCommit(TaskAttemptID)] This is
 * a legacy from the centralized commit protocol handling by the JobTracker.
 */
@Override
public void commitPending(TaskAttemptID taskAttemptID, TaskStatus taskStatsu)
    throws IOException, InterruptedException {
    LOG.info("Commit-pending state update from " + taskAttemptID.toString());
    // An attempt is asking if it can commit its output. This can be decided
    // only by the task which is managing the multiple attempts. So redirect the
    // request there;
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);

taskHeartbeatHandler.progressing(attemptID);
// Ignorable TaskStatus? - since a task will send a LastStatusUpdate
context.getEventHandler().handle(
    new TaskAttemptEvent(attemptID,
        TaskAttemptEventType.TA_COMMIT_PENDING));
}

@Override
public void done(TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("Done acknowledgement from " + taskAttemptID.toString());

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);
taskHeartbeatHandler.progressing(attemptID);

context.getEventHandler().handle(
    new TaskAttemptEvent(attemptID, TaskAttemptEventType.TA_DONE));
}

@Override
public void fatalError(TaskAttemptID taskAttemptID, String msg)
    throws IOException {
    // This happens only in Child and in the Task.
    LOG.fatal("Task: " + taskAttemptID + " - exited : " + msg);
    reportDiagnosticInfo(taskAttemptID, "Error: " + msg);

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
    TypeConverter.toYarn(taskAttemptID);
    context.getEventHandler().handle(
        new TaskAttemptEvent(attemptID, TaskAttemptEventType.TA_FAILMSG));
}

@Override
public void fsError(TaskAttemptID taskAttemptID, String message)
    throws IOException {
    // This happens only in Child.
    LOG.fatal("Task: " + taskAttemptID + " - failed due to FSError: "
        + message);
    reportDiagnosticInfo(taskAttemptID, "FSError: " + message);

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
    TypeConverter.toYarn(taskAttemptID);
    context.getEventHandler().handle(
        new TaskAttemptEvent(attemptID, TaskAttemptEventType.TA_FAILMSG));
}

@Override
public void shuffleError(TaskAttemptID taskAttemptID, String message)
    throws IOException {
    // TODO: This isn't really used in any MR code. Ask for removal.
    }

@Override
public MapTaskCompletionEventsUpdate getMapCompletionEvents(
    JobID jobIdentifier, int startIndex, int maxEvents,
    TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("MapCompletionEvents request from " + taskAttemptID.toString()
        + ". startIndex " + startIndex + " maxEvents " + maxEvents);

    // TODO: shouldReset is never used. See TT. Ask for Removal.
    boolean shouldReset = false;
}
org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID = 
    TypeConverter.toYarn(taskAttemptID);
TaskCompletionEvent[] events = 
    context.getJob(attemptID.getTaskId().getJobId()).getMapAttemptCompletionEvents(
        startIndex, maxEvents);

    taskHeartbeatHandler.progressing(attemptID);

    return new MapTaskCompletionEventsUpdate(events, shouldReset);
}

@Override
public boolean ping(TaskAttemptID taskAttemptID) throws IOException {
    LOG.info("Ping from " + taskAttemptID.toString());
    return true;
}

@Override
public void reportDiagnosticInfo(TaskAttemptID taskAttemptID, String diagnosticInfo)
    throws IOException {
    diagnosticInfo = StringInterner.weakIntern(diagnosticInfo);
    LOG.info("Diagnostics report from " + taskAttemptID.toString() + ": "
        + diagnosticInfo);

    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID =
        TypeConverter.toYarn(taskAttemptID);
    taskHeartbeatHandler.progressing(attemptID);

    // This is mainly used for cases where we want to propagate exception traces
    // of tasks that fail.

    // This call exists as a hadoop mapreduce legacy wherein all changes in
    // counters/progress/phase/output-size are reported through statusUpdate()
    // call but not diagnosticInformation.
    context.getEventHandler().handle(
        new TaskAttemptDiagnosticsUpdateEvent(attemptID, diagnosticInfo));
}

@Override
public boolean statusUpdate(TaskAttemptID taskAttemptID, 
    TaskStatus taskStatus) throws IOException, InterruptedException {
    LOG.info("Status update from " + taskAttemptID.toString());
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId yarnAttemptID =
        TypeConverter.toYarn(taskAttemptID);
    taskHeartbeatHandler.progressing(yarnAttemptID);
    TaskAttemptStatus taskAttemptStatus =
        new TaskAttemptStatus();
    taskAttemptStatus.id = yarnAttemptID;}
// Task sends the updated progress to the TT.
taskAttemptStatus.progress = taskStatus.getProgress();
LOG.info("Progress of TaskAttempt "+ taskAttemptID + " is : "+ taskStatus.getProgress());

// Task sends the updated state-string to the TT.
taskAttemptStatus.stateString = taskStatus.getStateString();

// Task sends the updated phase to the TT.
taskAttemptStatus.phase = TypeConverter.toYarn(taskStatus.getPhase());

// Counters are updated by the task. Convert counters into new format as
// that is the primary storage format inside the AM to avoid multiple
// conversions and unnecessary heap usage.
taskAttemptStatus.counters = new org.apache.hadoop.mapreduce.Counters(taskStatus.getCounters());

// Map Finish time set by the task (map only)
if (taskStatus.getIsMap() && taskStatus.getMapFinishTime() != 0) {
taskAttemptStatus.mapFinishTime = taskStatus.getMapFinishTime();
}

// Shuffle Finish time set by the task (reduce only).
if (!taskStatus.getIsMap() && taskStatus.getShuffleFinishTime() != 0) {
taskAttemptStatus.shuffleFinishTime = taskStatus.getShuffleFinishTime();
}

// Sort finish time set by the task (reduce only).
if (!taskStatus.getIsMap() && taskStatus.getSortFinishTime() != 0) {
taskAttemptStatus.sortFinishTime = taskStatus.getSortFinishTime();
}

// Not setting the task state. Used by speculation - will be set in TaskAttemptImpl
//taskAttemptStatus.taskState = TypeConverter.toYarn(taskStatus.getRunState());

//set the fetch failures
if (taskStatus.getFetchFailedMaps() != null && taskStatus.getFetchFailedMaps().size() > 0) {
taskAttemptStatus.fetchFailedMaps =
    new ArrayList<org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId>();
for (TaskAttemptID failedMapId : taskStatus.getFetchFailedMaps()) {
taskAttemptStatus.fetchFailedMaps.add(TypeConverter.toYarn(failedMapId));
}
}

// Task sends the information about the nextRecordRange to the TT

// TODO: The following are not needed here, but needed to be set somewhere inside AppMaster.
// taskStatus.getRunState(); // Set by the TT/JT. Transform into a state TODO
// taskStatus.getStartTime(); // Used to be set by the TaskTracker. This should be set by getTask().
// taskStatus.getFinishTime(); // Used to be set by TT/JT. Should be set when task finishes
// This was used by TT to do counter updates only once every minute. So this
// isn't ever changed by the Task itself.
// taskStatus.getIncludeCounters();

context.getEventHandler().handle(
    new TaskAttemptStatusUpdateEvent(taskAttemptStatus.id,
    taskAttemptStatus));
return true;
}

@Override
public long getProtocolVersion(String arg0, long arg1) throws IOException {
    return TaskUmbilicalProtocol.versionID;
}

@Override
public void reportNextRecordRange(TaskAttemptID taskAttemptID, Range range)
    throws IOException {
    throw new IOException("Not yet implemented.");
}

@Override
public JvmTask getTask(JvmContext context) throws IOException {
    // A rough imitation of code from TaskTracker.
    JVMId jvmId = context.jvmId;
    LOG.info("JVM with ID : " + jvmId + " asked for a task");

    JvmTask jvmTask = null;
    // TODO: Is it an authorized container to get a task? Otherwise return null.

    // TODO: Child.java's firstTaskID isn't really firstTaskID. Ask for update
    // to jobId and task-type.

    WrappedJvmID wJvmID = new WrappedJvmID(jvmId.getJobId(), jvmId.isMap, jvmId.getId());

    // Try to look up the task. We remove it directly as we don't give
    // multiple tasks to a JVM
    if (!jvmIdToActiveAttemptMap.containsKey(wJvmID)) {
        LOG.info("JVM with ID: " + jvmId + " is invalid and will be killed.");
    }
jvmTask = TASK_FOR_INVALID_JVM;
} else {
    if (!launchedJVMs.contains(wJvmID)) {
        jvmTask = null;
        LOG.info("JVM with ID: " + jvmId
                + " asking for task before AM launch registered. Given null task");
    } else {
        // remove the task as it is no more needed and free up the memory.
        // Also we have already told the JVM to process a task, so it is no
        // longer pending, and further request should ask it to exit.
        org.apache.hadoop.mapred.Task task =
            jvmIDToActiveAttemptMap.remove(wJvmID);
        launchedJVMs.remove(wJvmID);
        LOG.info("JVM with ID: " + jvmId + " given task: " + task.getTaskID());
        jvmTask = new JvmTask(task, false);
    }
}
return jvmTask;

@Override
public void registerPendingTask(  
    org.apache.hadoop.mapred.Task task, WrappedJvmID jvmID) {  
    // Create the mapping so that it is easy to look up  
    // when the jvm comes back to ask for Task.
    jvmIDToActiveAttemptMap.put(jvmID, task);
}

@Override
public void registerLaunchedTask(  
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID,  
    WrappedJvmID jvmId) {  
    // The AM considers the task to be launched (Has asked the NM to launch it)  
    // The JVM will only be given a task after this registartion.
    launchedJVMs.add(jvmId);

    taskHeartbeatHandler.register(attemptID);
}

@Override
public void unregister(  
    org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId attemptID,  
    WrappedJvmID jvmID) {  

    // Unregistration also comes from the same TaskAttempt which does the  
    // registration. Events are ordered at TaskAttempt, so unregistration will
// always come after registration.

// Remove from launchedJVMs before jvmIDToActiveAttemptMap to avoid
// synchronization issue with getTask(). getTask should be checking
// jvmIDToActiveAttemptMap before it checks launchedJVMs.

// remove the mappings if not already removed
launchedJVMs.remove(jvmID);
jvmIDToActiveAttemptMap.remove(jvmID);

// unregister this attempt
taskHeartbeatHandler.unregister(attemptID);
}

@Override
public ProtocolSignature getProtocolSignature(String protocol,
long clientVersion, int clientMethodsHash) throws IOException {
return ProtocolSignature.getProtocolSignature(this,
    protocol, clientVersion, clientMethodsHash);
}

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 * limitations under the License.
 */

package org.apache.hadoop.mapred;

import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.job.impl.TaskAttemptImpl;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

@SuppressWarnings("rawtypes")
public class ReduceTaskAttemptImpl extends TaskAttemptImpl {

    private final int numMapTasks;

    public ReduceTaskAttemptImpl(TaskId id, int attempt,
                                EventHandler eventHandler, Path jobFile, int partition,
                                int numMapTasks, JobConf conf,
                                TaskAttemptListener taskAttemptListener,
                                Token<JobTokenIdentifier> jobToken,
                                Credentials credentials, Clock clock,
                                AppContext appContext) {
        super(id, attempt, eventHandler, taskAttemptListener, jobFile, partition,
             conf, new String[] {}, jobToken, credentials, clock,
             appContext);
        this.numMapTasks = numMapTasks;
    }

    @Override
    public Task createRemoteTask() {
        // job file name is set in TaskAttempt, setting it null here
        ReduceTask reduceTask =
            new ReduceTask("", TypeConverter.fromYarn(getID()), partition,
                           numMapTasks, 1); // YARN doesn't have the concept of slots per task, set it as 1.
        reduceTask.setUser(conf.get(MRJobConfig.USER_NAME));
        reduceTask.setConf(conf);
        return reduceTask;
    }

    /**
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     *
     *  http://www.apache.org/licenses/LICENSE-2.0
     *
     * Unless required by applicable law or agreed to in writing, software
package org.apache.hadoop.mapreduce.v2.app.launcher;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.ThreadFactory;
import java.util.concurrent.ThreadPoolExecutor;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.mapred.ShuffleHandler;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.app.records.TaskAttemptContext;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptContainerLaunchedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;
import org.apache.hadoop.service.AbstractService;
import org.apache.hadoop.util.StringUtils;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import com.google.common.util.concurrent.ThreadFactoryBuilder;

/**
 * This class is responsible for launching of containers.
 */

public class ContainerLauncherImpl extends AbstractService implements ContainerLauncher {

    static final Log LOG = LogFactory.getLog(ContainerLauncherImpl.class);

    private ConcurrentHashMap<ContainerId, Container> containers =
            new ConcurrentHashMap<ContainerId, Container>();
    private final AppContext context;
    protected ThreadPoolExecutor launcherPool;
    protected static final int INITIAL_POOL_SIZE = 10;
    private int limitOnPoolSize;
    private Thread eventHandlingThread;
    protected BlockingQueue<ContainerLauncherEvent> eventQueue =
            new LinkedBlockingQueue<ContainerLauncherEvent>();
    private final AtomicBoolean stopped;
    private ContainerManagementProtocolProxy cmProxy;

    private Container getContainer(ContainerLauncherEvent event) {
        ContainerId id = event.getContainerID();
        Container c = containers.get(id);
        if(c == null) {
            c = new Container(event.getTaskAttemptID(), event.getContainerID(),
                    event.getContainerMgrAddress());
            Container old = containers.putIfAbsent(id, c);
            if(old != null) {
                old = null;
            }
        }
        return c;
    }

    private void removeContainerIfDone(ContainerId id) {
        Container c = containers.get(id);
        if(c != null && c.isCompletelyDone()) {
            containers.remove(id);
        }
    }

    private static enum ContainerState {
            PREP, FAILED, RUNNING, DONE, KILLED_BEFORE_LAUNCH
    }

    private class Container {


private ContainerState state;
// store enough information to be able to cleanup the container
private TaskAttemptId taskAttemptID;
private ContainerId containerID;
final private String containerMgrAddress;

public Container(TaskAttemptId taId, ContainerId containerID,
String containerMgrAddress) {
    this.state = ContainerState.PREP;
    this.taskAttemptID = taId;
    this.containerMgrAddress = containerMgrAddress;
    this.containerID = containerID;
}

public synchronized boolean isCompletelyDone() {
    return state == ContainerState.DONE || state == ContainerState.FAILED;
}

@SuppressWarnings("unchecked")
public synchronized void launch(ContainerRemoteLaunchEvent event) {
    LOG.info("Launching " + taskAttemptID);
    if(this.state == ContainerState.KILLED_BEFORE_LAUNCH) {
        state = ContainerState.DONE;
        sendContainerLaunchFailedMsg(taskAttemptID,
            "Container was killed before it was launched");
        return;
    }

    ContainerManagementProtocolProxyData proxy = null;
    try {
        proxy = getCMProxy(containerMgrAddress, containerID);

        // Construct the actual Container
        ContainerLaunchContext containerLaunchContext =
            event.getContainerLaunchContext();

        // Now launch the actual container
        StartContainerRequest startRequest =
            StartContainerRequest.newInstance(containerLaunchContext,
                event.getContainerToken());
        List<StartContainerRequest> list = new ArrayList<StartContainerRequest>();
        list.add(startRequest);
        StartContainersRequest requestList = StartContainersRequest.newInstance(list);
        StartContainersResponse response =
            proxy.getContainerManagementProtocol().startContainers(requestList);
        if (response.getFailedRequests() != null
            && response.getFailedRequests().containsKey(containerID)) {
            // Handle failed container launch
throw response.getFailedRequests().get(containerID).deSerialize();
}
ByteBuffer portInfo =
    response.getAllServicesMetaData().get(
        ShuffleHandler.MAPREDUCE_SHUFFLE_SERVICEID);
int port = -1;
if(portInfo != null) {
    port = ShuffleHandler.deserializeMetaData(portInfo);
}
LOG.info("Shuffle port returned by ContainerManager for ",
            + taskAttemptID + ": " + port);

if(port < 0) {
    this.state = ContainerState.FAILED;
    throw new IllegalStateException("Invalid shuffle port number ",
        + port + " returned for "+ taskAttemptID);
}

// after launching, send launched event to task attempt to move
// it from ASSIGNED to RUNNING state
context.getEventHandler().handle(
    new TaskAttemptContainerLaunchedEvent(taskAttemptID, port));
this.state = ContainerState.RUNNING;
} catch (Throwable t) {
    String message = "Container launch failed for " + containerID + ": ",
        + String.valueOf(toStringException(t));
    this.state = ContainerState.FAILED;
    sendContainerLaunchFailedMsg(taskAttemptID, message);
} finally {
    if (proxy != null) {
        cmProxy.maybeCloseProxy(proxy);
    }
}

@SuppressWarnings("unchecked")
public synchronized void kill() {

    if(this.state == ContainerState.PREP) {
        this.state = ContainerState.KILLED_BEFORE_LAUNCH;
    } else if (!isCompletelyDone()) {
        LOG.info("KILLING " + taskAttemptID);
        ContainerManagementProtocolProxyData proxy = null;
        try {
            proxy = getCMProxy(this.containerMgrAddress, this.containerID);
            // kill the remote container if already launched

List<ContainerId> ids = new ArrayList<ContainerId>();
ids.add(this.containerID);
StopContainersRequest request = StopContainersRequest.newInstance(ids);
StopContainersResponse response =
    proxy.getContainerManagementProtocol().stopContainers(request);
if (response.getFailedRequests() != null && response.getFailedRequests().containsKey(this.containerID)) {
    throw response.getFailedRequests().get(this.containerID)
        .deSerialize();
}
} catch (Throwable t) {
    // ignore the cleanup failure
    String message = "cleanup failed for container "
    + this.containerID + ": "
    + StringUtils.stringifyException(t);
    context.getEventHandler()
        .handle(
            new TaskAttemptDiagnosticsUpdateEvent(this.taskAttemptID,
                message));
    LOG.warn(message);
} finally {
    if (proxy != null) {
        cmProxy.maybeCloseProxy(proxy);
    }
}
this.state = ContainerState.DONE;
} // after killing, send killed event to task attempt
context.getEventHandler().handle(
    new TaskAttemptEvent(this.taskAttemptID,
        TaskAttemptEventType.TA_CONTAINER_CLEANED));
}

public ContainerLauncherImpl(AppContext context) {
    super(ContainerLauncherImpl.class.getName());
    this.context = context;
    this.stopped = new AtomicBoolean(false);
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    this.limitOnPoolSize = conf.getInt(
        MRJobConfig.MR_AM_CONTAINER_LAUNCHER_THREAD_COUNT_LIMIT,
        MRJobConfig.DEFAULT_MR_AM_CONTAINER_LAUNCHER_THREAD_COUNT_LIMIT);
    LOG.info("Upper limit on the thread pool size is "+this.limitOnPoolSize);
    super.serviceInit(conf);
    cmProxy = new ContainerManagementProtocolProxy(conf);
protected void serviceStart() throws Exception {

    ThreadFactory tf = new ThreadFactoryBuilder().setNameFormat("ContainerLauncher #\%d").setDaemon(true).build();

    // Start with a default core-pool size of 10 and change it dynamically.
    launcherPool = new ThreadPoolExecutor(INITIAL_POOL_SIZE,
        Integer.MAX_VALUE, 1, TimeUnit.HOURS,
        new LinkedBlockingQueue<Runnable>(),
        tf);
    eventHandlingThread = new Thread() {
        @Override
        public void run() {
            ContainerLauncherEvent event = null;
            Set<String> allNodes = new HashSet<String>();
            while (!stopped.get() && !Thread.currentThread().isInterrupted()) {
                try {
                    event = eventQueue.take();
                } catch (InterruptedException e) {
                    if (!stopped.get()) {
                        LOG.error("Returning, interrupted : " + e);
                    }
                    return;
                }
                allNodes.add(event.getContainerMgrAddress());
                int poolSize = launcherPool.getCorePoolSize();
                // See if we need up the pool size only if haven't reached the
                // maximum limit yet.
                if (poolSize != limitOnPoolSize) {
                    // nodes where containers will run at *this* point of time. This is
                    // *not* the cluster size and doesn't need to be.
                    int numNodes = allNodes.size();
                    int idealPoolSize = Math.min(limitOnPoolSize, numNodes);
                    if (poolSize < idealPoolSize) {
                        // Bump up the pool size to idealPoolSize+INITIAL_POOL_SIZE, the
                        // later is just a buffer so we are not always increasing the
                        // pool-size
                        int newPoolSize = Math.min(limitOnPoolSize, idealPoolSize
                            + INITIAL_POOL_SIZE);
                        LOG.info("Setting ContainerLauncher pool size to " + newPoolSize
                            + " as number-of-nodes to talk to is " + numNodes);
                    }
                }
            }
        }
    };
}
launcherPool.setCorePoolSize(newPoolSize);

// the events from the queue are handled in parallel
// using a thread pool
launcherPool.execute(createEventProcessor(event));

// TODO: Group launching of multiple containers to a single
// NodeManager into a single connection

private void shutdownAllContainers() {
    for (Container ct : this.containers.values()) {
        if (ct != null) {
            ct.kill();
        }
    }
}

protected void serviceStop() throws Exception {
    if (stopped.getAndSet(true)) {
        // return if already stopped
        return;
    }
    // shutdown any containers that might be left running
    shutdownAllContainers();
    if (eventHandlingThread != null) {
        eventHandlingThread.interrupt();
    }
    if (launcherPool != null) {
        launcherPool.shutdownNow();
    }
    super.serviceStop();
}

protected EventProcessor createEventProcessor(ContainerLauncherEvent event) {
    return new EventProcessor(event);
}

/**
 * Setup and start the container on remote nodemanager.
 */
class EventProcessor implements Runnable {
    private ContainerLauncherEvent event;

    EventProcessor(ContainerLauncherEvent event) {
        this.event = event;
    }

    @Override
    public void run() {
        LOG.info("Processing the event " + event.toString());

        // Load ContainerManager tokens before creating a connection.
        // TODO: Do it only once per NodeManager.
        ContainerId containerID = event.getContainerID();

        Container c = getContainer(event);
        switch(event.getType()) {
            case CONTAINER_REMOTE_LAUNCH:
                ContainerRemoteLaunchEvent launchEvent
                    = (ContainerRemoteLaunchEvent) event;
                c.launch(launchEvent);
                break;

            case CONTAINER_REMOTE_CLEANUP:
                c.kill();
                break;
            }
            removeContainerIfDone(containerID);
        }
    }

    void sendContainerLaunchFailedMsg(TaskAttemptId taskAttemptID,
                                      String message) {
        LOG.error(message);
        context.getEventHandler().handle("new TaskAttemptDiagnosticsUpdateEvent(taskAttemptID, message)");
        context.getEventHandler().handle("new TaskAttemptEvent(taskAttemptID, 
            TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED)");
    }

    @Override
    public void handle(ContainerLauncherEvent event) {
        try {
            eventQueue.put(event);
        }
    }
}
public ContainerManagementProtocolProxy.ContainerManagementProtocolProxyData getCMProxy(String containerMgrBindAddr, ContainerId containerId)
    throws IOException {
    return cmProxy.getProxy(containerMgrBindAddr, containerId);
}

package org.apache.hadoop.mapreduce.v2.app.job.impl;

import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.MapTaskAttemptImpl;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.metrics.MRAppMetrics;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

@SuppressWarnings({ "rawtypes" })
public class MapTaskImpl extends TaskImpl {

    private final TaskSplitMetaInfo taskSplitMetaInfo;

    public MapTaskImpl(JobId jobId, int partition, EventHandler eventHandler,
                        Path remoteJobConfFile, JobConf conf,
                        TaskSplitMetaInfo taskSplitMetaInfo,
                        TaskAttemptListener taskAttemptListener,
                        Token<JobTokenIdentifier> jobToken,
                        Credentials credentials, Clock clock,
                        int appAttemptId, MRApplMetrics metrics, AppContext appContext) {
        super(jobId, TaskType.MAP, partition, eventHandler, remoteJobConfFile,
              conf, taskAttemptListener, jobToken, credentials, clock,
              appAttemptId, metrics, appContext);
        this.taskSplitMetaInfo = taskSplitMetaInfo;
    }

    @Override
    protected int getMaxAttempts() {
        return conf.getInt(MRJobConfig.MAP_MAX_ATTEMPTS, 4);
    }

    @Override
    protected TaskAttemptImpl createAttempt() {
        return new MapTaskAttemptImpl(getID(), nextAttemptNumber,
                                       eventHandler, jobFile,
                                       partition, taskSplitMetaInfo, conf, taskAttemptListener,
                                       jobToken, credentials, clock, appContext);
    }

    @Override
    public TaskType getType() {
        return TaskType.MAP;
    }

    protected TaskSplitMetaInfo getTaskSplitMetaInfo() {
        return this.taskSplitMetaInfo;
    }

    /**
     * @return a String formatted as a comma-separated list of splits.
     */
    @Override
    protected String getSplitsAsString() {
        String[] splits = getTaskSplitMetaInfo().getLocations();
        if (splits == null || splits.length == 0)
            return "";
        StringBuilder sb = new StringBuilder();
        return sb.toString();
    }
for (int i = 0; i < splits.length; i++) {
    if (i != 0) sb.append(",");
    sb.append(splits[i]);
}
return sb.toString();
}

/**
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 */

package org.apache.hadoop.mapreduce.v2.app.job.impl;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Comparator;
import java.util.EnumSet;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapreduce.Counters;
import org.apache.hadoop.mapreduce.MRConfig;
import org.apache.hadoop.mapreduce.OutputCommitter;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapreduce.Counters;
import org.apache.hadoop.mapreduce.MRConfig;
import org.apache.hadoop.mapreduce.OutputCommitter;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import org.apache.hadoop.yarn.util.Clock;

import com.google.common.annotations.VisibleForTesting;

/**
 * Implementation of Task interface.
 */
@SuppressWarnings({ "rawtypes", "unchecked" })
public abstract class TaskImpl implements Task, EventHandler<TaskEvent> {

    private static final Log LOG = LogFactory.getLog(TaskImpl.class);

    protected final JobConf conf;
    protected final Path jobFile;
    protected final int partition;
    protected final TaskAttemptListener taskAttemptListener;
    protected final EventHandler eventHandler;
    private final TaskId taskId;
    protected Map<TaskAttemptId, TaskAttempt> attempts;
    private final int maxAttempts;
    protected final Clock clock;
    private final Lock readLock;
    private final Lock writeLock;
    private final MRAppMetrics metrics;
    protected final AppContext appContext;
    private long scheduledTime;

    private final RecordFactory recordFactory = RecordFactoryProvider.getRecordFactory(null);

    protected boolean encryptedShuffle;
    protected Credentials credentials;
    protected Token<JobTokenIdentifier> jobToken;

    //should be set to one which comes first
    //saying COMMIT_PENDING
    private TaskAttemptId commitAttempt;

    private TaskAttemptId successfulAttempt;

    private final Set<TaskAttemptId> failedAttempts;
    // Track the finished attempts - successful, failed and killed
    private final Set<TaskAttemptId> finishedAttempts;
    // counts the number of attempts that are either running or in a state where
    // they will come to be running when they get a Container
    private final Set<TaskAttemptId> inProgressAttempts;
private boolean historyTaskStartGenerated = false;

private static final SingleArcTransition<TaskImpl, TaskEvent>
    ATTEMPT_KILLED_TRANSITION = new AttemptKilledTransition();
private static final SingleArcTransition<TaskImpl, TaskEvent>
    KILL_TRANSITION = new KillTransition();

private static final StateMachineFactory
    <TaskImpl, TaskStateInternal, TaskEventType, TaskEvent>
    stateMachineFactory
    = new StateMachineFactory<TaskImpl, TaskStateInternal, TaskEventType, TaskEvent>
    (TaskStateInternal.NEW)

    // define the state machine of Task

    // Transitions from NEW state
    .addTransition(TaskStateInternal.NEW, TaskStateInternal.SCHEDULED,
        TaskEventType.T_SCHEDULE, new InitialScheduleTransition())
    .addTransition(TaskStateInternal.NEW, TaskStateInternal.KILLED,
        TaskEventType.T_KILL, new KillNewTransition())
    .addTransition(TaskStateInternal.NEW,
        EnumSet.of(TaskStateInternal.FAILED,
            TaskStateInternal.KILLED,
            TaskStateInternal.RUNNING,
            TaskStateInternal.SUCCEEDED),
        TaskEventType.T_RECOVER, new RecoverTransition())

    // Transitions from SCHEDULED state
    // when the first attempt is launched, the task state is set to RUNNING
    .addTransition(TaskStateInternal.SCHEDULED, TaskStateInternal.RUNNING,
        TaskEventType.T_ATTEMPT_LAUNCHED, new LaunchTransition())
    .addTransition(TaskStateInternal.SCHEDULED, TaskStateInternal.KILL_WAIT,
        TaskEventType.T_KILL, KILL_TRANSITION)
    .addTransition(TaskStateInternal.SCHEDULED,
        EnumSet.of(TaskStateInternal.FAILED,
            TaskStateInternal.KILLED,
            TaskStateInternal.RUNNING,
            TaskStateInternal.SUCCEEDED),
        TaskEventType.T_ATTEMPT_FAILED,
        new AttemptFailedTransition())

    // Transitions from RUNNING state
    .addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING,
        TaskEventType.T_ATTEMPT_LAUNCHED) //more attempts may start later
    .addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING,
        TaskEventType.T_ATTEMPT_COMMIT_PENDING,
        new AttemptCommitPendingTransition())
    .addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING,
        TaskEventType.T_ADD_SPEC_ATTEMPT, new RedundantScheduleTransition())
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.SUCCEEDED, TaskEventType.T_ATTEMPT_SUCCEEDED, new AttemptSucceededTransition())
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.RUNNING, TaskEventType.T_ATTEMPT_KILLED, ATTEMPT_KILLED_TRANSITION)
.addTransition(TaskStateInternal.RUNNING, EnumSet.of(TaskStateInternal.RUNNING, TaskStateInternalFAILED), TaskEventType.T_ATTEMPT_FAILED, new AttemptFailedTransition())
.addTransition(TaskStateInternal.RUNNING, TaskStateInternal.KILL_WAIT, TaskEventType.T_KILL, KILL_TRANSITION)

// Transitions from KILL_WAIT state
.addTransition(TaskStateInternal.KILL_WAIT, EnumSet.of(TaskStateInternal.KILL_WAIT, TaskStateInternal.KILLED), TaskEventType.T_ATTEMPT_KILLED, new KillWaitAttemptKilledTransition())
.addTransition(TaskStateInternal.KILL_WAIT, EnumSet.of(TaskStateInternal.KILL_WAIT, TaskStateInternal.KILLED), TaskEventType.T_ATTEMPT_SUCCEEDED, new KillWaitAttemptSucceededTransition())
.addTransition(TaskStateInternal.KILL_WAIT, EnumSet.of(TaskStateInternal.KILL_WAIT, TaskStateInternal.KILLED), TaskEventType.T_ATTEMPT_FAILED, new KillWaitAttemptFailedTransition())

// Ignore-able transitions.
.addTransition(TaskStateInternal.KILL_WAIT, TaskStateInternal.KILL_WAIT, EnumSet.of(TaskEventType.T_KILL, TaskEventType.T_ATTEMPT_LAUNCHED, TaskEventType.T_ATTEMPT_COMMIT_PENDING, TaskEventType.T_ADD_SPEC_ATTEMPT))

// Transitions from SUCCEEDED state
.addTransition(TaskStateInternal.SUCCEEDED, EnumSet.of(TaskStateInternal.SCHEDULED, TaskStateInternal.SUCCEEDED, TaskStateInternal.FAILED), TaskEventType.T_ATTEMPT_FAILED, new RetroactiveFailureTransition())
.addTransition(TaskStateInternal.SUCCEEDED, EnumSet.of(TaskStateInternal.SCHEDULED, TaskStateInternal.SUCCEEDED), TaskEventType.T_ATTEMPT_KILLED, new RetroactiveKilledTransition())
.addTransition(TaskStateInternal.SUCCEEDED, TaskStateInternal.SUCCEEDED, TaskEventType.T_ATTEMPT_SUCCEEDED, new AttemptSucceededAtSucceededTransition())

// Ignore-able transitions.
.addTransition(TaskStateInternal.SUCCEEDED, TaskStateInternal.SUCCEEDED, EnumSet.of(TaskEventType.T_KILL, TaskEventType.T_ATTEMPT_COMMIT_PENDING, TaskEventType.T_ADD_SPEC_ATTEMPT))

// Ignore-able transitions.
EnumSet.of(TaskEventType.T_ADD_SPEC_ATTEMPT,
   TaskEventType.T_ATTEMPT_COMMIT_PENDING,
   TaskEventType.T_ATTEMPT_LAUNCHED,
   TaskEventType.T_KILL))

// Transitions from FAILED state
   .addTransition(TaskStateInternal.FAILED, TaskStateInternal.FAILED,
      EnumSet.of(TaskEventType.T_KILL,
         TaskEventType.T_ADD_SPEC_ATTEMPT,
         TaskEventType.T_ATTEMPT_COMMIT_PENDING,
         TaskEventType.T_ATTEMPT_FAILED,
         TaskEventType.T_ATTEMPT_KILLED,
         TaskEventType.T_ATTEMPT_LAUNCHED,
         TaskEventType.T_ATTEMPT_SUCCEEDED))

// Transitions from KILLED state
   .addTransition(TaskStateInternal.KILLED, TaskStateInternal.KILLED,
      EnumSet.of(TaskEventType.T_KILL,
         TaskEventType.T_ADD_SPEC_ATTEMPT))

// create the topology tables
   .installTopology();

private final StateMachine<TaskStateInternal, TaskEventType, TaskEvent>
   stateMachine;

// By default, the next TaskAttempt number is zero. Changes during recovery
protected int nextAttemptNumber = 0;

// For sorting task attempts by completion time
private static final Comparator<TaskAttemptInfo> TA_INFO_COMPARATOR =
   new Comparator<TaskAttemptInfo>() {
      @Override
      public int compare(TaskAttemptInfo a, TaskAttemptInfo b) {
         long diff = a.getFinishTime() - b.getFinishTime();
         return diff == 0 ? 0 : (diff < 0 ? -1 : 1);
      }
   };

@Override
public TaskState getState() {
   readLock.lock();
   try {
      return getExternalState(getInternalState());
   } finally {
      readLock.unlock();
   }
}
public TaskImpl(JobId jobId, TaskType taskType, int partition,
EventHandler eventHandler, Path remoteJobConfFile, JobConf conf,
TaskAttemptListener taskAttemptListener,
Token<JobTokenIdentifier> jobToken,
Credentials credentials, Clock clock,
int appAttemptId, MRApplMetrics metrics, AppContext appContext) {
    this.conf = conf;
    this.clock = clock;
    this.jobFile = remoteJobConfFile;
    ReadWriteLock readWriteLock = new ReentrantReadWriteLock();
    readLock = readWriteLock.readLock();
    writeLock = readWriteLock.writeLock();
    this.attempts = Collections.emptyMap();
    this.finishedAttempts = new HashSet<TaskAttemptId>(2);
    this.failedAttempts = new HashSet<TaskAttemptId>(2);
    this.inProgressAttempts = new HashSet<TaskAttemptId>(2);
    // This overridable method call is okay in a constructor because we
    // have a convention that none of the overrides depends on any
    // fields that need initialization.
    maxAttempts = getMaxAttempts();
    taskId = MRBuilderUtils.newTaskId(jobId, partition, taskType);
    this.partition = partition;
    this.taskAttemptListener = taskAttemptListener;
    this.eventHandler = eventHandler;
    this.credentials = credentials;
    this.jobToken = jobToken;
    this.metrics = metrics;
    this.appContext = appContext;
    this.encryptedShuffle = conf.getBoolean(MRConfig.SHUFFLE_SSL_ENABLED_KEY,
                                            MRConfig.SHUFFLE_SSL_ENABLED_DEFAULT);

    // This "this leak" is okay because the retained pointer is in an
    // instance variable.
    stateMachine = stateMachineFactory.make(this);

    // All the new TaskAttemptIDs are generated based on MR
    // ApplicationAttemptID so that attempts from previous lives don't
    // over-step the current one. This assumes that a task won't have more
    // than 1000 attempts in its single generation, which is very reasonable.
    nextAttemptNumber = (appAttemptId - 1) * 1000;
}

@override
public Map<TaskAttemptId, TaskAttempt> getAttempts() {
    readLock.lock();

    try {
if (attempts.size() <= 1) {
    return attempts;
}

Map<TaskAttemptId, TaskAttempt> result
    = new LinkedHashMap<TaskAttemptId, TaskAttempt>();
result.putAll(attempts);
return result;
} finally {
    readLock.unlock();
}

@Override
public TaskAttempt getAttempt(TaskAttemptId attemptID) {
    readLock.lock();
    try {
        return attempts.get(attemptID);
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskId getID() {
    return taskId;
}

@Override
public boolean isFinished() {
    readLock.lock();
    try {
        // TODO: Use stateMachine level method?
        return (getInternalState() == TaskStateInternal.SUCCEEDED ||
                getInternalState() == TaskStateInternal.FAILED ||
                getInternalState() == TaskStateInternal.KILLED);
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskReport getReport() {
    TaskReport report = recordFactory.newRecordInstance(TaskReport.class);
    readLock.lock();
    try {
        report.setTaskId(taskId);
    } finally {
        readLock.unlock();
    }
}
report.setStartTime(getLaunchTime());
report.setFinishTime(getFinishTime());
report.setTaskState(getState());
report.setProgress(getProgress());

for (TaskAttempt attempt : attempts.values()) {
    if (TaskAttemptState.RUNNING.equals(attempt.getState())) {
        report.addRunningAttempt(attempt.getID());
    }
}

report.setSuccessfulAttempt(successfulAttempt);

for (TaskAttempt att : attempts.values()) {
    String prefix = "AttemptID:" + att.getID() + " Info:";
    for (CharSequence cs : att.getDiagnostics()) {
        report.addDiagnostics(prefix + cs);
    }
}

// Add a copy of counters as the last step so that their lifetime on heap
// is as small as possible.
report.setCounters(TypeConverter.toYarn(getCounters()));

return report;
} finally {
    readLock.unlock();
}

@Override
public Counters getCounters() {
    Counters counters = null;
    readLock.lock();
    try {
        TaskAttempt bestAttempt = selectBestAttempt();
        if (bestAttempt != null) {
            counters = bestAttempt.getCounters();
        } else {
            counters = TaskAttemptImpl.EMPTY_COUNTERS;
        }
        return counters;
    } finally {
        readLock.unlock();
    }
}
@Override
public float getProgress() {
    readLock.lock();
    try {
        TaskAttempt bestAttempt = selectBestAttempt();
        if (bestAttempt == null) {
            return 0f;
        }
        return bestAttempt.getProgress();
    } finally {
        readLock.unlock();
    }
}

@VisibleForTesting
public TaskStateInternal getInternalState() {
    readLock.lock();
    try {
        return stateMachine.getCurrentState();
    } finally {
        readLock.unlock();
    }
}

private static TaskState getExternalState(TaskStateInternal smState) {
    if (smState == TaskStateInternal.KILL_WAIT) {
        return TaskState.KILLED;
    } else {
        return TaskState.valueOf(smState.name());
    }
}

// this is always called in read/write lock
private long getLaunchTime() {
    long taskLaunchTime = 0;
    boolean launchTimeSet = false;
    for (TaskAttempt at : attempts.values()) {
        // select the least launch time of all attempts
        long attemptLaunchTime = at.getLaunchTime();
        if (attemptLaunchTime != 0 && !launchTimeSet) {
            // For the first non-zero launch time
            launchTimeSet = true;
            taskLaunchTime = attemptLaunchTime;
        } else if (attemptLaunchTime != 0 && taskLaunchTime > attemptLaunchTime) {
            taskLaunchTime = attemptLaunchTime;
        }
    }
    return taskLaunchTime;
}
if (!launchTimeSet) {
    return this.scheduledTime;
}
return taskLaunchTime;

//this is always called in read/write lock
//TODO Verify behaviour is Task is killed (no finished attempt)
private long getFinishTime() {
    if (!isFinished()) {
        return 0;
    }
    long finishTime = 0;
    for (TaskAttempt at : attempts.values()) {
        //select the max finish time of all attempts
        if (finishTime < at.getFinishTime()) {
            finishTime = at.getFinishTime();
        }
    }
    return finishTime;
}

private long getFinishTime(TaskAttemptId taId) {
    if (taId == null) {
        return clock.getTime();
    }
    long finishTime = 0;
    for (TaskAttempt at : attempts.values()) {
        //select the max finish time of all attempts
        if (at.getID().equals(taId)) {
            return at.getFinishTime();
        }
    }
    return finishTime;
}

private TaskStateInternal finished(TaskStateInternal finalState) {
    if (getInternalState() == TaskStateInternal.RUNNING) {
        metrics.endRunningTask(this);
    }
    return finalState;
}

//select the nextAttemptNumber with best progress
// always called inside the Read Lock
private TaskAttempt selectBestAttempt() {
    if (successfulAttempt != null) {
        return attempts.get(successfulAttempt);
    }
    //this is always called in read/write lock
    //TODO Verify behaviour is Task is killed (no finished attempt)
    private long getFinishTime() {
        if (!isFinished()) {
            return 0;
        }
        long finishTime = 0;
        for (TaskAttempt at : attempts.values()) {
            //select the max finish time of all attempts
            if (finishTime < at.getFinishTime()) {
                finishTime = at.getFinishTime();
            }
        }
        return finishTime;
    }

    private long getFinishTime(TaskAttemptId taId) {
        if (taId == null) {
            return clock.getTime();
        }
        long finishTime = 0;
        for (TaskAttempt at : attempts.values()) {
            //select the max finish time of all attempts
            if (at.getID().equals(taId)) {
                return at.getFinishTime();
            }
        }
        return finishTime;
    }

    private TaskStateInternal finished(TaskStateInternal finalState) {
        if (getInternalState() == TaskStateInternal.RUNNING) {
            metrics.endRunningTask(this);
        }
        return finalState;
    }

    //select the nextAttemptNumber with best progress
    // always called inside the Read Lock
    private TaskAttempt selectBestAttempt() {
        if (successfulAttempt != null) {
            return attempts.get(successfulAttempt);
        }
    }
float progress = 0f;
TaskAttempt result = null;
for (TaskAttempt at : attempts.values()) {
    switch (at.getState()) {

    // ignore all failed task attempts
    case FAILED:
    case KILLED:
        continue;
    }
    if (result == null) {
        result = at; //The first time around
    }
    // calculate the best progress
    float attemptProgress = at.getProgress();
    if (attemptProgress > progress) {
        result = at;
        progress = attemptProgress;
    }
}
return result;
}

@Override
public boolean canCommit(TaskAttemptId taskAttemptID) {
    readLock.lock();
    boolean canCommit = false;
    try {
        if (commitAttempt != null) {
            canCommit = taskAttemptID.equals(commitAttempt);
            LOG.info("Result of canCommit for "+ taskAttemptID + ":" + canCommit);
        }
    } finally {
        readLock.unlock();
    }
    return canCommit;
}

protected abstract TaskAttemptImpl createAttempt();

// No override of this method may require that the subclass be initialized.
protected abstract int getMaxAttempts();

protected TaskAttempt getSuccessfulAttempt() {
    readLock.lock();
    try {
if (null == successfulAttempt) {
    return null;
}
return attempts.get(successfulAttempt);
} finally {
    readLock.unlock();
}

// This is always called in the Write Lock
private void addAndScheduleAttempt(Avataar avataar) {
    TaskAttempt attempt = addAttempt(avataar);
    inProgressAttempts.add(attempt.getID());
    // schedule the nextAttemptNumber
    if (failedAttempts.size() > 0) {
        eventHandler.handle(new TaskAttemptEvent(attempt.getID(),
                TaskAttemptEventType.TA_RESCHEDULE));
    } else {
        eventHandler.handle(new TaskAttemptEvent(attempt.getID(),
                TaskAttemptEventType.TA_SCHEDULE));
    }
}

private TaskAttemptImpl addAttempt(Avataar avataar) {
    TaskAttemptImpl attempt = createAttempt();
    attempt.setAvataar(avataar);
    if (LOG.isDebugEnabled()) {
        LOG.debug("Created attempt "+ attempt.getID());
    }
    switch (attempts.size()) {
    case 0:
        attempts = Collections.singletonMap(attempt.getID(),
                (TaskAttempt) attempt);
        break;
    case 1:
        Map<TaskAttemptId, TaskAttempt> newAttempts =
                new LinkedHashMap<TaskAttemptId, TaskAttempt>(maxAttempts);
        newAttempts.putAll(attempts);
        attempts = newAttempts;
        attempts.put(attempt.getID(), attempt);
        break;
    default:
        attempts.put(attempt.getID(), attempt);
        break;
    }
++nextAttemptNumber;
return attempt;
}

@override
public void handle(TaskEvent event) {
if (LOG.isDebugEnabled()) {
    LOG.debug("Processing " + event.getTaskID() + " of type "
    + event.getType());
}
try {
    writeLock.lock();
    TaskStateInternal oldState = getInternalState();
    try {
        stateMachine.doTransition(event.getType(), event);
    } catch (InvalidStateTransitonException e) {
        LOG.error("Can't handle this event at current state for "
        + this.taskId, e);
        internalError(event.getType());
    }
    if (oldState != getInternalState()) {
        LOG.info(taskId + " Task Transitioned from " + oldState + " to "
        + getInternalState());
    }
} finally {
    writeLock.unlock();
}
}

protected void internalError(TaskEventType type) {
    LOG.error("Invalid event " + type + " on Task " + this.taskId);
    eventHandler.handle(new JobDiagnosticsUpdateEvent(
        this.taskId.getJobId(), "Invalid event " + type + " on Task " + this.taskId));
    eventHandler.handle(new JobEvent(this.taskId.getJobId(),
        JobEventType.INTERNAL_ERROR));
}

// always called inside a transition, in turn inside the Write Lock
private void handleTaskAttemptCompletion(TaskAttemptId attemptId,
    TaskAttemptCompletionEventStatus status) {
    TaskAttempt attempt = attempts.get(attemptId);
    //raise the completion event only if the container is assigned
    // to nextAttemptNumber
    if (attempt.getNodeHttpAddress() != null) {
        TaskAttemptCompletionEvent tce = recordFactory
            .newRecordInstance(TaskAttemptCompletionEvent.class);
        //raise the completion event only if the container is assigned
tce.setEventId(-1);
String scheme = (encryptedShuffle) ? "https://" : "http://";
tce.setMapOutputServerAddress(StringInterner.weakIntern(scheme
   + attempt.getNodeHttpAddress().split(":")[0] + ":"
   + attempt.getShufflePort()));
tce.setStatus(status);
tce.setAttemptId(attempt.getID());
int runTime = 0;
if (attempt.getFinishTime() != 0 && attempt.getLaunchTime() !=0)
   runTime = (int)(attempt.getFinishTime() - attempt.getLaunchTime());
tce.setAttemptRunTime(runTime);

//raise the event to job so that it adds the completion event to its
//data structures
eventHandler.handle(new JobTaskAttemptCompletedEvent(tce));
}

private void sendTaskStartedEvent() {
   TaskStartedEvent tse = new TaskStartedEvent(
      TypeConverter.fromYarn(taskId), getLaunchTime(),
      TypeConverter.fromYarn(taskId.getTaskType()),
      getSplitsAsString());
   eventHandler
      .handle(new JobHistoryEvent(taskId.getJobId(), tse));
   historyTaskStartGenerated = true;
}

private static TaskFinishedEvent createTaskFinishedEvent(TaskImpl task, TaskStateInternal taskState) {
   TaskFinishedEvent tfe =
      new TaskFinishedEvent(TypeConverter.fromYarn(task.taskId),
                   TypeConverter.fromYarn(task.successfulAttempt),
                   task.getFinishTime(task.successfulAttempt),
                   TypeConverter.fromYarn(task.taskId.getTaskType()),
                   taskState.toString(),
                   task.getCounters());
   return tfe;
}

private static TaskFailedEvent createTaskFailedEvent(TaskImpl task, List<String> diag, TaskStateInternal
   taskState, TaskAttemptId taId) {
   StringBuilder errorSb = new StringBuilder();
   if (diag != null) {
      for (String d : diag) {
         errorSb.append(", ").append(d);
      }
   }
   TaskFailedEvent taskFailedEvent = new TaskFailedEvent(
private static void unSucceed(TaskImpl task) {
    task.commitAttempt = null;
    task.successfulAttempt = null;
}

private void sendTaskSucceededEvents() {
    eventHandler.handle(new JobTaskEvent(taskId, TaskState.SUCCEEDED));
    LOG.info("Task succeeded with attempt " + successfulAttempt);
    if (historyTaskStartGenerated) {
        TaskFinishedEvent tfe = createTaskFinishedEvent(this,
            TaskStateInternal.SUCCEEDED);
        eventHandler.handle(new JobHistoryEvent(taskId.getJobId(), tfe));
    }
}

/**
 * @return a String representation of the splits.
 *
 * Subclasses can override this method to provide their own representations
 * of splits (if any).
 *
 */
protected String getSplitsAsString(){
    return "";
}

/**
 * Recover a completed task from a previous application attempt
 * @param taskInfo recovered info about the task
 * @param recoverTaskOutput whether to recover task outputs
 * @return state of the task after recovery
 */
private TaskStateInternal recover(TaskInfo taskInfo,
    OutputCommitter committer, boolean recoverTaskOutput) {
    LOG.info("Recovering task " + taskId
        + " from prior app attempt, status was " + taskInfo.getTaskStatus());
scheduledTime = taskInfo.getStartTime();
sendTaskStartedEvent();
Collection<TaskAttemptInfo> attemptInfos =
    taskInfo.getAllTaskAttempts().values();

if (attemptInfos.size() > 0) {
    metrics.launchedTask(this);
}

// recover the attempts for this task in the order they finished
// so task attempt completion events are ordered properly
int savedNextAttemptNumber = nextAttemptNumber;
ArrayList<TaskAttemptInfo> taInfos =
    new ArrayList<TaskAttemptInfo>(taskInfo.getAllTaskAttempts().values());
Collections.sort(taInfos, TA_INFO_COMPARATOR);
for (TaskAttemptInfo taInfo : taInfos) {
    nextAttemptNumber = taInfo.getAttemptId().getId();
    TaskAttemptImpl attempt = addAttempt(Avataar.VIRGIN);
    // handle the recovery inline so attempts complete before task does
    attempt.handle(new TaskAttemptRecoverEvent(attempt.getID(), taInfo,
        committer, recoverTaskOutput));
    finishedAttempts.add(attempt.getID());
    TaskAttemptCompletionEventStatus taces = null;
    TaskAttemptState attemptState = attempt.getState();
    switch (attemptState) {
        case FAILED:
            taces = TaskAttemptCompletionEventStatus.FAILED;
            break;
        case KILLED:
            taces = TaskAttemptCompletionEventStatus.KILLED;
            break;
        case SUCCEEDED:
            taces = TaskAttemptCompletionEventStatus.SUCCEEDED;
            break;
        default:
            throw new IllegalStateException("Unexpected attempt state during recovery: "+attemptState);
    }
    if (attemptState == TaskAttemptState.FAILED) {
        failedAttempts.add(attempt.getID());
        if (failedAttempts.size() >= maxAttempts) {
            taces = TaskAttemptCompletionEventStatus.TIPFAILED;
        }
    }
}

// don't clobber the successful attempt completion event
// TODO: this shouldn't be necessary after MAPREDUCE-4330
if (successfulAttempt == null) {

handleTaskAttemptCompletion(attempt.getID(), taces);
if (attemptState == TaskAttemptState.SUCCEEDED) {
    successfulAttempt = attempt.getID();
}
}
}
nextAttemptNumber = savedNextAttemptNumber;

TaskStateInternal taskState = TaskStateInternal.valueOf(taskInfo.getTaskStatus());
switch (taskState) {
    case SUCCEEDED:
        if (successfulAttempt != null) {
            sendTaskSucceededEvents();
        } else {
            LOG.info("Missing successful attempt for task " + taskId + ", recovering as RUNNING");
            // there must have been a fetch failure and the retry wasn't complete
            taskState = TaskStateInternal.RUNNING;
            metrics.runningTask(this);
            addAndScheduleAttempt(Avataar.VIRGIN);
        }
        break;
    case FAILED:
    case KILLED:
        {
            if (taskState == TaskStateInternal.KILLED && attemptInfos.size() == 0) {
                metrics.endWaitingTask(this);
            }
            TaskFailedEvent tfe = new TaskFailedEvent(taskInfo.getTaskId(),
                taskInfo.getFinishTime(), taskInfo.getTaskType(),
                taskInfo.getError(), taskInfo.getTaskStatus(),
                taskInfo.getFailedDueToAttemptId(), taskInfo.getCounters());
            eventHandler.handle(new JobHistoryEvent(taskId.getJobId(), tfe));
            eventHandler.handle(new JobTaskEvent(taskId, getExternalState(taskState)));
            break;
        }
    default:
        throw new java.lang.AssertionError("Unexpected recovered task state: " + taskState);
    }
}
return taskState;

private static class RecoverTransition
    implements MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

@Override
public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
    TaskRecoverEvent tre = (TaskRecoverEvent) event;
    return task.recover(tre.getTaskInfo(), tre.getOutputCommitter(),
                        tre.getRecoverTaskOutput());
}

private static class InitialScheduleTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {

    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        task.addAndScheduleAttempt(Avataar.VIRGIN);
        task.scheduledTime = task.clock.getTime();
        task.sendTaskStartedEvent();
    }
}

// Used when creating a new attempt while one is already running.
// Currently we do this for speculation. In the future we may do this
// for tasks that failed in a way that might indicate application code
// problems, so we can take later failures in parallel and flush the
// job quickly when this happens.
private static class RedundantScheduleTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {

    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        LOG.info("Scheduling a redundant attempt for task " + task.taskId);
        task.addAndScheduleAttempt(Avataar.SPECULATIVE);
    }
}

private static class AttemptCommitPendingTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {

    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent ev = (TaskTAttemptEvent) event;
        // The nextAttemptNumber is commit pending, decide on set the commitAttempt
        TaskAttemptId attemptID = ev.getTaskAttemptID();
        if (task.commitAttempt == null) {
            // TODO: validate attemptID
            task.commitAttempt = attemptID;
            LOG.info(attemptID + " given a go for committing the task output.");
        } else {
            // Don’t think this can be a pluggable decision, so simply raise an
// event for the TaskAttempt to delete its output.
LOG.info(task.commitAttempt
    + " already given a go for committing the task output, so killing "+ attemptID);
task.eventHandler.handle(new TaskAttemptEvent(
    attemptID, TaskAttemptEventType.TA_KILL));
}
}

private static class AttemptSucceededTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {
@Override
public void transition(TaskImpl task, TaskEvent event) {
    TaskTAttemptEvent taskTAttemptEvent = (TaskTAttemptEvent) event;
    TaskAttemptId taskAttemptId = taskTAttemptEvent.getTaskAttemptID();
task.handleTaskAttemptCompletion(
    taskAttemptId,
    TaskAttemptCompletionEventStatus.SUCCEEDED);
task.finishedAttempts.add(taskAttemptId);
task.inProgressAttempts.remove(taskAttemptId);
task.successfulAttempt = taskAttemptId;
task.sendTaskSucceededEvents();
for (TaskAttempt attempt : task.attempts.values()) {
    if (attempt.getID() != task.successfulAttempt &&
        // This is okay because it can only talk us out of sending a
        // TA_KILL message to an attempt that doesn't need one for
        // other reasons.
        !attempt.isFinished()) {
        LOG.info("Issuing kill to other attempt "+ attempt.getID());
task.eventHandler.handle(
            new TaskAttemptEvent(attempt.getID(),
                TaskAttemptEventType.TA_KILL));
    }
}
task.finished(TaskStateInternal.SUCCEEDED);
}

private static class AttemptKilledTransition implements
    SingleArcTransition<TaskImpl, TaskEvent> {
@Override
public void transition(TaskImpl task, TaskEvent event) {
    TaskAttemptId taskAttemptId =
        ((TaskTAttemptEvent) event).getTaskAttemptID();
task.handleTaskAttemptCompletion(
    taskAttemptId,
    TaskAttemptCompletionEventStatus.KILLED);
}
private static class KillWaitAttemptKilledTransition implements
    MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

    protected TaskStateInternal finalState = TaskStateInternal.KILLED;
    protected final TaskAttemptCompletionEventStatus taCompletionEventStatus;

    public KillWaitAttemptKilledTransition() {
        this(TaskAttemptCompletionEventStatus.KILLED);
    }

    public KillWaitAttemptKilledTransition(
        TaskAttemptCompletionEventStatus taCompletionEventStatus) {
        this.taCompletionEventStatus = taCompletionEventStatus;
    }

    @Override
    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskAttemptId taskAttemptId =
            ((TaskTAttemptEvent) event).getTaskAttemptID();
        task.handleTaskAttemptCompletion(taskAttemptId, taCompletionEventStatus);
        task.finishedAttempts.add(taskAttemptId);

        // check whether all attempts are finished
        if (task.finishedAttempts.size() == task.attempts.size()) {
            if (task.historyTaskStartGenerated) {
                TaskFailedEvent taskFailedEvent = createTaskFailedEvent(task, null,
                    finalState, null); // TODO JH verify failedAttempt null
                task.eventHandler.handle(new JobHistoryEvent(task.taskId.getJobId(),
                    taskFailedEvent));
            } else {
                LOG.debug("Not generating HistoryFinish event since start event not" +
                    " generated for task: " + task.getID());
            }
        }

        task.eventHandler.handle(
            new JobTaskEvent(task.taskId, getExternalState(finalState)));

        return finalState;
    }
}
private static class KillWaitAttemptSucceededTransition extends KillWaitAttemptKilledTransition {
    public KillWaitAttemptSucceededTransition() {
        super(TaskAttemptCompletionEventStatus.SUCCEEDED);
    }
}

private static class KillWaitAttemptFailedTransition extends KillWaitAttemptKilledTransition {
    public KillWaitAttemptFailedTransition() {
        super(TaskAttemptCompletionEventStatus.FAILED);
    }
}

private static class AttemptFailedTransition implements MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

    @Override
    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        TaskAttemptId taskAttemptId = castEvent.getTaskAttemptID();
        task.failedAttempts.add(taskAttemptId);
        if (taskAttemptId.equals(task.commitAttempt)) {
            task.commitAttempt = null;
        }
        TaskAttempt attempt = task.attempts.get(taskAttemptId);
        if (attempt.getAssignedContainerMgrAddress() != null) {
            // container was assigned
            task.eventHandler.handle(new ContainerFailedEvent(attempt.getID(),
                    attempt.getAssignedContainerMgrAddress()));
        }
        task.finishedAttempts.add(taskAttemptId);
        if (task.failedAttempts.size() < task.maxAttempts) {
            task.handleTaskAttemptCompletion(
                    taskAttemptId,
                    TaskAttemptCompletionEventStatus.FAILED);
            // we don't need a new event if we already have a spare
            task.inProgressAttempts.remove(taskAttemptId);
            if (task.inProgressAttempts.size() == 0 &&
                    task.successfulAttempt == null) {
                task.addAndScheduleAttempt(Avataar.VIRGIN);
            }
        }
    }
}
else {
    task.handleTaskAttemptCompletion(
        taskAttemptId,
        TaskAttemptCompletionEventStatus.TIPFAILED);

    // issue kill to all non finished attempts
    for (TaskAttempt taskAttempt : task.attempts.values()) {
        task.killUnfinishedAttempt
            (taskAttempt, "Task has failed. Killing attempt!");
    }
    task.inProgressAttempts.clear();

    if (task.historyTaskStartGenerated) {
        TaskFailedEvent taskFailedEvent = createTaskFailedEvent(task, attempt.getDiagnostics(),
            TaskStateInternal.FAILED, taskAttemptId);
        task.eventHandler.handle(new JobHistoryEvent(task.taskId.getJobId(),
            taskFailedEvent));
    } else {
        LOG.debug("Not generating HistoryFinish event since start event not" +
            " generated for task: " + task.getID());
    }
    task.eventHandler.handle(
        new JobTaskEvent(task.taskId, TaskState.FAILED));
    return task.finished(TaskStateInternal.FAILED);
}

return getDefaultState(task);

protected TaskStateInternal getDefaultState(TaskImpl task) {
    return task.getInternalState();
}

private static class RetroactiveFailureTransition
    extends AttemptFailedTransition {

    @Override
    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        if (task.getInternalState() == TaskStateInternal.SUCCEEDED &&
            !castEvent.getTaskAttemptID().equals(task.successfulAttempt)) {
            // don't allow a different task attempt to override a previous
            // succeeded state
            task.finishedAttempts.add(castEvent.getTaskAttemptID());
            task.inProgressAttempts.remove(castEvent.getTaskAttemptID());
            return TaskStateInternal.SUCCEEDED;
        }
    

    protected TaskStateInternal getDefaultState(TaskImpl task) {
        return task.getInternalState();
    }

    }

private static class RetroactiveFailureTransition
    extends AttemptFailedTransition {

    @Override
    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        if (task.getInternalState() == TaskStateInternal.SUCCEEDED &&
            !castEvent.getTaskAttemptID().equals(task.successfulAttempt)) {
            // don't allow a different task attempt to override a previous
            // succeeded state
            task.finishedAttempts.add(castEvent.getTaskAttemptID());
            task.inProgressAttempts.remove(castEvent.getTaskAttemptID());
            return TaskStateInternal.SUCCEEDED;
        }
    }
}
// a successful REDUCE task should not be overridden
// TODO: consider moving it to MapTaskImpl
if (!TaskType.MAP.equals(task.getType())) {
    LOG.error("Unexpected event for REDUCE task " + event.getType());
    task.internalError(event.getType());
}

// tell the job about the rescheduling
task.eventHandler.handle(
    new JobMapTaskRescheduledEvent(task.taskId));
// super.transition is mostly coded for the case where an
// UNcompleted task failed. When a COMPLETED task retroactively
// fails, we have to let AttemptFailedTransition.transition
// believe that there's no redundancy.
unSucceed(task);
// fake increase in Uncomplete attempts for super.transition
task.inProgressAttempts.add(castEvent.getTaskAttemptID());
return super.transition(task, event);
}

@Override
protected TaskStateInternal getDefaultState(TaskImpl task) {
    return TaskStateInternal.SCHEDULED;
}

private static class RetroactiveKilledTransition implements
    MultipleArcTransition<TaskImpl, TaskEvent, TaskStateInternal> {

    @Override
    public TaskStateInternal transition(TaskImpl task, TaskEvent event) {
        TaskAttemptId attemptId = null;
        if (event instanceof TaskTAttemptEvent) {
            TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
            attemptId = castEvent.getTaskAttemptID();
            if (task.getInternalState() == TaskStateInternal.SUCCEEDED &&
                !attemptId.equals(task.successfulAttempt)) {
                // don't allow a different task attempt to override a previous
                // succeeded state
                task.finishedAttempts.add(castEvent.getTaskAttemptID());
                task.inProgressAttempts.remove(castEvent.getTaskAttemptID());
                return TaskStateInternal.SUCCEEDED;
            }
        }
        return super.transition(task, event);
    }

    // a successful REDUCE task should not be overridden
    // TODO: consider moving it to MapTaskImpl
    if (!TaskType.MAP.equals(task.getType())) {

LOG.error("Unexpected event for REDUCE task " + event.getType());
task.internalError(event.getType());
}

// successful attempt is now killed. reschedule
// tell the job about the rescheduling
unSucceed(task);
task.handleTaskAttemptCompletion(attemptId,
    TaskAttemptCompletionEventStatus.KILLED);
task.eventHandler.handle(new JobMapTaskRescheduledEvent(task.taskId));
// typically we are here because this map task was run on a bad node and
// we want to reschedule it on a different node.
// Depending on whether there are previous failed attempts or not this
// can SCHEDULE or RESCHEDULE the container allocate request. If this
// SCHEDULE's then the dataLocal hosts of this taskAttempt will be used
// from the map splitInfo. So the bad node might be sent as a location
// to the RM. But the RM would ignore that just like it would ignore
// currently pending container requests affinitized to bad nodes.
task.addAndScheduleAttempt(Avataar.VIRGIN);
return TaskStateInternal.SCHEDULED;
}
}

private static class AttemptSucceededAtSucceededTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> { 
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        TaskTAttemptEvent castEvent = (TaskTAttemptEvent) event;
        task.finishedAttempts.add(castEvent.getTaskAttemptID());
        task.inProgressAttempts.remove(castEvent.getTaskAttemptID());
    }
}

private static class KillNewTransition
    implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        if (task.historyTaskStartGenerated) {
            TaskFailedEvent taskFailedEvent = createTaskFailedEvent(task, null,
                TaskStateInternal.KILLED, null); // TODO Verify failedAttemptId is null
            task.eventHandler.handle(new JobHistoryEvent(task.taskId.getJobId(),
                taskFailedEvent);
        } else {
            LOG.debug("Not generating HistoryFinish event since start event not" +
                " generated for task: " + task.getID());
        }
    }
}
task.eventHandler.handle(new JobTaskEvent(task.taskId, getExternalState(TaskStateInternal.KILLED));

private void killUnfinishedAttempt(TaskAttempt attempt, String logMsg) {
    if (attempt != null && !attempt.isFinished()) {
        eventHandler.handle(
            new TaskAttemptEvent(attempt.getID(), TaskAttemptEventType.TA_KILL));
    }
}

private static class KillTransition implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        // issue kill to all non finished attempts
        for (TaskAttempt attempt : task.attempts.values()) {
            task.killUnfinishedAttempt
                (attempt, "Task KILL is received. Killing attempt!");
        }
    }
}

static class LaunchTransition implements SingleArcTransition<TaskImpl, TaskEvent> {
    @Override
    public void transition(TaskImpl task, TaskEvent event) {
        task.metrics.launchedTask(task);
        task.metrics.runningTask(task);
    }
}

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package org.apache.hadoop.mapreduce.v2.app.job.impl;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.EnumSet;
import java.util.HashMap;
import java.util.LinkedHashMap;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.ScheduledFuture;
import java.util.concurrent.ScheduledThreadPoolExecutor;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileContext;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.JobACLsManager;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.TaskCompletionEvent;
import org.apache.hadoop.mapreduce.Counters;
import org.apache.hadoop.mapreduce.JobACL;
import org.apache.hadoop.mapreduce.JobContext;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.OutputCommitter;
import org.apache.hadoop.mapreduce.TypeConverter;
import org.apache.hadoop.mapreduce.jobhistory.JobFinishedEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobInfoChangeEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobInitedEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobSubmittedEvent;
import org.apache.hadoop.mapreduce.jobhistory.JobUnsuccessfulCompletionEvent;
import org.apache.hadoop.mapreduce.lib.chain.ChainMapper;
import org.apache.hadoop.mapreduce.lib.chain.ChainReducer;
import org.apache.hadoop.mapreduce.security.TokenCache;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.security.token.JobTokenSecretManager;
import org.apache.hadoop.mapreduce.split.SplitMetaInfoReader;
import org.apache.hadoop.mapreduce.task.JobContextImpl;
import org.apache.hadoop.mapreduce.v2.api.records.AMInfo;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.JobState;
import org.apache.hadoop.mapreduce.v2.api.records.Phase;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEventStatus;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskState;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterJobAbortEvent;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterJobCommitEvent;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterJobSetupEvent;
import org.apache.hadoop.mapreduce.v2.app.job.JobStateInternal;
import org.apache.hadoop.mapreduce.v2.app.job.Task;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobCommitFailedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobCounterUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskRecoverEvent;
import org.apache.hadoop.mapreduce.v2.app.metrics.MRAppMetrics;
import org.apache.hadoop.mapreduce.v2.util.MRApps;
import org.apache.hadoop.mapreduce.v2.util.MRBuilderUtils;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.security.security.authorize.AccessControlList;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.util.StringUtils;
import org.apache.hadoop.yarn.api.records.ApplicationAttemptId;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.NodeState;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.state.InvalidStateTransitonException;
import org.apache.hadoop.yarn.state.MultipleArcTransition;
import org.apache.hadoop.yarn.state.SingleArcTransition;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import org.apache.hadoop.yarn.util.Clock;

/** Implementation of Job interface. Maintains the state machines of Job.
 * The read and write calls use ReadWriteLock for concurrency.
 */
@.SuppressWarnings({ "rawtypes", "unchecked" })
public class JobImpl implements org.apache.hadoop.mapreduce.v2.app.job.Job,
EventHandler<JobEvent> {

private static final TaskAttemptCompletionEvent[]
EMPTY_TASK_ATTEMPT_COMPLETION_EVENTS = new TaskAttemptCompletionEvent[0];

private static final TaskCompletionEvent[]
EMPTY_TASK_COMPLETION_EVENTS = new TaskCompletionEvent[0];

private static final Log LOG = LogFactory.getLog(JobImpl.class);

//The maximum fraction of fetch failures allowed for a map
private static final double MAX_ALLOWED_FETCH_FAILURES_FRACTION = 0.5;

// Maximum no. of fetch-failure notifications after which map task is failed
private static final int MAX_FETCH_FAILURES_NOTIFICATIONS = 3;

//final fields
private final ApplicationAttemptId applicationAttemptId;
private final Clock clock;
private final JobACLsManager aclsManager;
private final String username;
private final Map<JobACL, AccessControlList> jobACLs;
private final String jobName;
private float setupWeight = 0.05f;
private float cleanupWeight = 0.05f;
private float mapWeight = 0.0f;
private float reduceWeight = 0.0f;
private final JobId jobId;
private final String jobName;
private final OutputCommitter committer;
private final boolean newApiCommitter;
private final org.apache.hadoop.mapreduce.JobID oldJobId;
private final TaskAttemptListener taskAttemptListener;
private final Counters jobCounters = new Counters();
private final Set<TaskId> mapTasks = new LinkedHashSet<TaskId>();
private final Set<TaskId> reduceTasks = new LinkedHashSet<TaskId>();
/**
* maps nodes to tasks that have run on those nodes
*/
private final HashMap<NodeId, List<TaskAttemptId>> nodesToSucceededTaskAttempts = new HashMap<NodeId, List<TaskAttemptId>>()

private final EventHandler eventHandler;
private final MRAppMetrics metrics;
private final String userName;
private final String queueName;
private final long appSubmitTime;
private final AppContext appContext;

private boolean lazyTasksCopyNeeded = false;
volatile Map<TaskId, Task> tasks = new LinkedHashSet<TaskId, Task>();
private Counters jobCounters = new Counters();
private Object fullCountersLock = new Object();
private Counters fullCounters = null;
private Counters finalMapCounters = null;
private Counters finalReduceCounters = null;

// FIXME:
// Can then replace task-level uber counters (MR-2424) with job-level ones
// sent from LocalContainerLauncher, and eventually including a count of
// of uber-AM attempts (probably sent from MRAppMaster).
public JobConf conf;
//fields initialized in init
private FileSystem fs;
private Path remoteJobSubmitDir;
public Path remoteJobConfFile;
private JobContext jobContext;
private int allowedMapFailuresPercent = 0;
private int allowedReduceFailuresPercent = 0;
private List<TaskAttemptCompletionEvent> taskAttemptCompletionEvents;
private List<TaskCompletionEvent> mapAttemptCompletionEvents;
private List<Integer> taskCompletionIdxToMapCompletionIdx;
private final List<String> diagnostics = new ArrayList<String>();

//task/attempt related datastructures
private final Map<TaskId, Integer> successAttemptCompletionEventNoMap =
    new HashMap<TaskId, Integer>();
private final Map<TaskAttemptId, Integer> fetchFailuresMapping =
    new HashMap<TaskAttemptId, Integer>();

private static final DiagnosticsUpdateTransition DIAGNOSTIC_UPDATE_TRANSITION = new DiagnosticsUpdateTransition();
private static final InternalErrorTransition INTERNAL_ERROR_TRANSITION = new InternalErrorTransition();
private static final InternalRebootTransition INTERNAL_REBOOT_TRANSITION = new InternalRebootTransition();
private static final TaskAttemptCompletedEventTransition TASK_ATTEMPT_COMPLETED_EVENT_TRANSITION =
    new TaskAttemptCompletedEventTransition();
private static final CounterUpdateTransition COUNTER_UPDATE_TRANSITION =
    new CounterUpdateTransition();
private static final UpdatedNodesTransition UPDATED_NODES_TRANSITION =
    new UpdatedNodesTransition();

protected static final
    StateMachineFactory<JobImpl, JobStateInternal, JobEventType, JobEvent>
        stateMachineFactory
            = new StateMachineFactory<JobImpl, JobStateInternal, JobEventType, JobEvent>
                (JobStateInternal.NEW)

        // Transitions from NEW state
    .addTransition(JobStateInternal.NEW, JobStateInternal.NEW,
        JobEventType.JOB_DIAGNOSTIC_UPDATE,
        DIAGNOSTIC_UPDATE_TRANSITION)
    .addTransition(JobStateInternal.NEW, JobStateInternal.NEW,
        JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
    .addTransition(JobStateInternal.NEW, EnumSet.of(JobStateInternal.INITED, JobStateInternal.FAILED),
        JobEventType.JOB_INIT,
new InitTransition()
.addTransition(JobStateInternal.NEW, JobStateInternal.KILLED,
  JobEventType.JOB_KILL,
  new KillNewJobTransition())
.addTransition(JobStateInternal.NEW, JobStateInternal.ERROR,
  JobEventType.INTERNAL_ERROR,
  INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.NEW, JobStateInternal.REBOOT,
  JobEventType.JOB_AM_REBOOT,
  INTERNAL_REBOOT_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.NEW, JobStateInternal.NEW,
  JobEventType.JOB_UPDATED_NODES)

// Transitions from INITED state
.addTransition(JobStateInternal.INITED, JobStateInternal.INITED,
  JobEventType.JOB_DIAGNOSTIC_UPDATE,
  DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.INITED, JobStateInternal.INITED,
  JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.INITED, JobStateInternal.SETUP,
  JobEventType.JOB_START,
  new StartTransition())
.addTransition(JobStateInternal.INITED, JobStateInternal.KILLED,
  JobEventType.JOB_KILL,
  new KillInitedJobTransition())
.addTransition(JobStateInternal.INITED, JobStateInternal.ERROR,
  JobEventType.INTERNAL_ERROR,
  INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.INITED, JobStateInternal.REBOOT,
  JobEventType.JOB_AM_REBOOT,
  INTERNAL_REBOOT_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.INITED, JobStateInternal.INITED,
  JobEventType.JOB_UPDATED_NODES)

// Transitions from SETUP state
.addTransition(JobStateInternal.SETUP, JobStateInternal.SETUP,
  JobEventType.JOB_DIAGNOSTIC_UPDATE,
  DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.SETUP, JobStateInternal.SETUP,
  JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.SETUP, JobStateInternal.RUNNING,
  JobEventType.JOB_SETUP_COMPLETED,
  new SetupCompletedTransition())
.addTransition(JobStateInternal.SETUP, JobStateInternal.FAIL_ABORT,
  JobEventType.JOB_SETUP_FAILED,
  new SetupFailedTransition())
.addTransition(JobStateInternal.SETUP, JobStateInternal.KILL_ABORT, 
    JobEventType.JOB_KILL, 
    new KilledDuringSetupTransition())
.addTransition(JobStateInternal.SETUP, JobStateInternal.ERROR, 
    JobEventType.INTERNAL_ERROR, 
    INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.SETUP, JobStateInternal.REBOOT, 
    JobEventType.JOB_AM_REBOOT, 
    INTERNAL_REBOOT_TRANSITION)

// Ignore-able events
.addTransition(JobStateInternal.SETUP, JobStateInternal.SETUP, 
    JobEventType.JOB_UPDATED_NODES)

// Transitions from RUNNING state
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING, 
    JobEventType.JOB_UPDATED_NODES, UPDATED_NODES_TRANSITION)
.addTransition(JobStateInternal.RUNNING, 
    EnumSet.of(JobStateInternal.RUNNING, 
        JobStateInternal.COMMITTING, JobStateInternal.FAIL_WAIT, 
        JobStateInternal.FAIL_ABORT), 
    JobEventType.JOB_TASK_COMPLETED, 
    new TaskCompletedTransition())
.addTransition(JobStateInternal.RUNNING, 
    EnumSet.of(JobStateInternal.RUNNING, 
        JobStateInternal.COMMITTING), 
    JobEventType.JOB_COMPLETED, 
    new JobNoTasksCompletedTransition())
.addTransition(JobStateInternal.RUNNING, JobStateInternal.KILL_WAIT, 
    JobEventType.JOB_KILL, new KillTasksTransition())
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING, 
    JobEventType.JOB_UPDATED_NODES, 
    UPDATED_NODES_TRANSITION)
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING, 
    JobEventType.JOB_MAP_TASK_RESCHEDULED, 
    new MapTaskRescheduledTransition())
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING, 
    JobEventType.JOB_COUNTER_UPDATE, 
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.RUNNING, JobStateInternal.RUNNING, 
    JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE, 
    new TaskAttemptFetchFailureTransition())
.addTransition(JobStateInternal.RUNNING, 
    JobStateInternal.RUNNING, 
    JobEventType.JOB_TASK_ATTEMPT_COMPLETED, 
    TASK_ATTEMPT_COMPLETED_EVENT_TRANSITION)
JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR, INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.RUNNING, JobStateInternal.REBOOT,
    JobEventType.JOB_AM_REBOOT,
    INTERNAL_REBOOT_TRANSITION)

// Transitions from KILL_WAIT state.
.addTransition
    (JobStateInternal.KILL_WAIT,
    EnumSet.of(JobStateInternal.KILL_WAIT,
        JobStateInternal.KILL_ABORT),
    JobEventType.JOB_TASK_COMPLETED,
    new KillWaitTaskCompletedTransition())
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
    TASK_ATTEMPT_COMPLETED_EVENT_TRANSITION)
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    JobEventType.JOB_DIAGNOSTIC_UPDATE,
    DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(
    JobStateInternal.KILL_WAIT,
    JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)

// Ignore-able events
.addTransition(JobStateInternal.KILL_WAIT, JobStateInternal.KILL_WAIT,
    EnumSet.of(JobEventType.JOB_KILL,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_AM_REBOOT))

// Transitions from COMMITTING state
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.SUCCEEDED,
    JobEventType.JOB_COMMIT_COMPLETED,
    new CommitSucceededTransition())
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.FAIL_ABORT,
    JobEventType.JOB_COMMIT_FAILED,
    new CommitFailedTransition())
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.KILL_ABORT,
    JobEventType.JOB_KILL,
    new KilledDuringCommitTransition())
.addTransition(JobStateInternal.COMMITTING,
    JobStateInternal.COMMITTING,
JobEventType.JOB_DIAGNOSTIC_UPDATE,
DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.COMMITTING,
JobStateInternal.COMMITTING,
JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.COMMITTING,
JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
INTERNAL_ERROR_TRANSITION)
.addTransition(JobStateInternal.COMMITTING, JobStateInternal.REBOOT,
JobEventType.JOB_AM_REBOOT,
INTERNAL_REBOOT_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.COMMITTING,
JobStateInternal.COMMITTING,
EnumSet.of(JobEventType.JOB_UPDATED_NODES,
   JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE))

// Transitions from SUCCEEDED state
.addTransition(JobStateInternal.SUCCEEDED, JobStateInternal.SUCCEEDED,
   JobEventType.JOB_DIAGNOSTIC_UPDATE,
   DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.SUCCEEDED, JobStateInternal.SUCCEEDED,
   JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(
   JobStateInternal.SUCCEEDED,
   JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
   INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.SUCCEEDED, JobStateInternal.SUCCEEDED,
   EnumSet.of(JobEventType.JOB_KILL,
      JobEventType.JOB_UPDATED_NODES,
      JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
      JobEventType.JOB_AM_REBOOT,
      JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
      JobEventType.JOB_MAP_TASK_RESCHEDULED))

// Transitions from FAIL_WAIT state
.addTransition(JobStateInternal.FAIL_WAIT,
   JobStateInternal.FAIL_WAIT,
   JobEventType.JOB_DIAGNOSTIC_UPDATE,
   DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAIL_WAIT,
   JobStateInternal.FAIL_WAIT,
   JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAIL_WAIT,
   EnumSet.of(JobStateInternal.FAIL_WAIT, JobStateInternal.FAIL_ABORT),
   JobEventType.JOB_TASK_COMPLETED,
   new JobFailWaitTransition())
.addTransition(JobStateInternal.FAIL_WAIT, JobStateInternal.FAIL_ABORT, JobEventType.JOB_FAIL_WAIT_TIMEDOUT, new JobFailWaitTimedOutTransition())
.addTransition(JobStateInternal.FAIL_WAIT, JobStateInternal.KILLED, JobEventType.JOB_KILL, new KilledDuringAbortTransition())
.addTransition(JobStateInternal.FAIL_WAIT, JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR, INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.FAIL_WAIT, EnumSet.of(JobEventType.JOB_UPDATED_NODES, JobEventType.JOB_TASK_ATTEMPT_COMPLETED, JobEventType.JOB_MAP_TASK_RESCHEDULED, JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE, JobEventType.JOB_AM_REBOOT))

//Transitions from FAIL_ABORT state
.addTransition(JobStateInternal.FAIL_ABORT, JobStateInternal.FAIL_ABORT, JobEventType.JOB_DIAGNOSTIC_UPDATE, DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAIL_ABORT, JobStateInternal.FAILED, JobEventType.JOB_ABORT_COMPLETED, new JobAbortCompletedTransition())
.addTransition(JobStateInternal.FAIL_ABORT, JobStateInternal.KILLED, JobEventType.JOB_KILL, new KilledDuringAbortTransition())
.addTransition(JobStateInternal.FAIL_ABORT, EnumSet.of(JobEventType.JOB_UPDATED_NODES, JobEventType.JOB_TASK_COMPLETED, JobEventType.JOB_TASK_ATTEMPT_COMPLETED, JobEventType.JOB_MAP_TASK_RESCHEDULED, JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE, JobEventType.JOB_COMMIT_COMPLETED, JobEventType.JOB_COMMIT_FAILED, JobEventType.JOB_AM_REBOOT, JobEventType.JOB_FAIL_WAIT_TIMEDOUT))

// Ignore-able events
.addTransition(JobStateInternal.FAIL_ABORT, EnumSet.of(JobEventType.JOB_UPDATED_NODES, JobEventType.JOB_TASK_ATTEMPT_COMPLETED, JobEventType.JOB_MAP_TASK_RESCHEDULED, JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE, JobEventType.JOB_COMMIT_COMPLETED, JobEventType.JOB_COMMIT_FAILED, JobEventType.JOB_AM_REBOOT, JobEventType.JOB_FAIL_WAIT_TIMEDOUT))
// Transitions from KILL_ABORT state
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.KILL_ABORT,
    JobEventType.JOB_DIAGNOSTIC_UPDATE, DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.KILL_ABORT,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.KILLED,
    JobEventType.JOB_ABORT_COMPLETED, new JobAbortCompletedTransition())
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.KILLED,
    JobEventType.JOB_KILL, new KilledDuringAbortTransition())
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.KILL_ABORT, JobStateInternal.KILL_ABORT,
    EnumSet.of(JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_SETUP_COMPLETED,
        JobEventType.JOB_SETUP_FAILED,
        JobEventType.JOB_COMMIT_COMPLETED,
        JobEventType.JOB_COMMIT_FAILED,
        JobEventType.JOB_AM_REBOOT))

// Transitions from FAILED state
.addTransition(JobStateInternal.FAILED, JobStateInternal.FAILED,
    JobEventType.JOB_DIAGNOSTIC_UPDATE, DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAILED, JobStateInternal.FAILED,
    JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(JobStateInternal.FAILED, JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
    INTERNAL_ERROR_TRANSITION)
// Ignore-able events
.addTransition(JobStateInternal.FAILED, JobStateInternal.FAILED,
    EnumSet.of(JobEventType.JOB_KILL,
        JobEventType.JOB_UPDATED_NODES,
        JobEventType.JOB_TASK_COMPLETED,
        JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
        JobEventType.JOB_MAP_TASK_RESCHEDULED,
        JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
        JobEventType.JOB_SETUP_COMPLETED,
        JobEventType.JOB_SETUP_FAILED,
JobEventType.JOB_COMMIT_COMPLETED,
JobEventType.JOB_COMMIT_FAILED,
JobEventType.JOB_ABORT_COMPLETED,
JobEventType.JOB_AM_REBOOT))

// Transitions from KILLED state
.addTransition(JobStateInternal.KILLED, JobStateInternal.KILLED,
   JobEventType.JOB_DIAGNOSTIC_UPDATE,
   DIAGNOSTIC_UPDATE_TRANSITION)
.addTransition(JobStateInternal.KILLED, JobStateInternal.KILLED,
   JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)
.addTransition(
   JobStateInternal.KILLED,
   JobStateInternal.ERROR, JobEventType.INTERNAL_ERROR,
   INTERNAL_ERROR_TRANSITION)

// Ignore-able events
.addTransition(JobStateInternal.KILLED, JobStateInternal.KILLED,
   EnumSet.of(JobEventType.JOB_KILL,
   JobEventType.JOB_START,
   JobEventType.JOB_UPDATED_NODES,
   JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
   JobEventType.JOB_SETUP_COMPLETED,
   JobEventType.JOB_SETUP_FAILED,
   JobEventType.JOB_COMMIT_COMPLETED,
   JobEventType.JOB_COMMIT_FAILED,
   JobEventType.JOB_ABORT_COMPLETED,
   JobEventType.JOB_AM_REBOOT))

// No transitions from INTERNAL_ERROR state. Ignore all.
.addTransition(
   JobStateInternal.ERROR,
   JobStateInternal.ERROR,
   EnumSet.of(JobEventType.JOB_INIT,
   JobEventType.JOB_KILL,
   JobEventType.JOB_TASK_COMPLETED,
   JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
   JobEventType.JOB_MAP_TASK_RESCHEDULED,
   JobEventType.JOB_DIAGNOSTIC_UPDATE,
   JobEventType.JOB_UPDATED_NODES,
   JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
   JobEventType.JOB_SETUP_COMPLETED,
   JobEventType.JOB_SETUP_FAILED,
   JobEventType.JOB_COMMIT_COMPLETED,
   JobEventType.JOB_COMMIT_FAILED,
   JobEventType.JOB_ABORT_COMPLETED,
   JobEventType.INTERNAL_ERROR,
   JobEventType.JOB_AM_REBOOT))
.addTransition(JobStateInternal.ERROR, JobStateInternal.ERROR,
// No transitions from AM_REBOOT state. Ignore all.
.addTransition(
    JobStateInternal.REBOOT,
    JobStateInternal.REBOOT,
    EnumSet.of(JobEventType.JOB_INIT,
               JobEventType.JOB_KILL,
               JobEventType.JOB_TASK_COMPLETED,
               JobEventType.JOB_TASK_ATTEMPT_COMPLETED,
               JobEventType.JOB_MAP_TASK_RESCHEDULED,
               JobEventType.JOB_DIAGNOSTIC_UPDATE,
               JobEventType.JOB_UPDATED_NODES,
               JobEventType.JOB_TASK_ATTEMPT_FETCH_FAILURE,
               JobEventType.JOB_SETUP_COMPLETED,
               JobEventType.JOB_SETUP_FAILED,
               JobEventType.JOB_COMMIT_COMPLETED,
               JobEventType.JOB_COMMIT_FAILED,
               JobEventType.JOB_ABORT_COMPLETED,
               JobEventType.INTERNAL_ERROR,
               JobEventType.JOB_AM_REBOOT))
.addTransition(JobStateInternal.REBOOT, JobStateInternal.REBOOT,
               JobEventType.JOB_COUNTER_UPDATE, COUNTER_UPDATE_TRANSITION)

// create the topology tables
.installTopology();

private final StateMachine<JobStateInternal, JobEventType, JobEvent> stateMachine;

// changing fields while the job is running
private int numMapTasks;
private int numReduceTasks;
private int completedTaskCount = 0;
private int succeededMapTaskCount = 0;
private int succeededReduceTaskCount = 0;
private int failedMapTaskCount = 0;
private int failedReduceTaskCount = 0;
private int killedMapTaskCount = 0;
private int killedReduceTaskCount = 0;
private long startTime;
private long finishTime;
private float setupProgress;
private float mapProgress;
private float reduceProgress;
private float cleanupProgress;
private boolean isUber = false;

private Credentials jobCredentials;
private Token<JobTokenIdentifier> jobToken;
private JobTokenSecretManager jobTokenSecretManager;

private JobStateInternal forcedState = null;

//Executor used for running future tasks. Setting thread pool size to 1
private ScheduledThreadPoolExecutor executor = new ScheduledThreadPoolExecutor(1);
private ScheduledFuture failWaitTriggerScheduledFuture;

private JobState lastNonFinalState = JobState.NEW;

public JobImpl(JobId jobId, ApplicationAttemptId applicationAttemptId,
    Configuration conf, EventHandler eventHandler,
    TaskAttemptListener taskAttemptListener,
    JobTokenSecretManager jobTokenSecretManager,
    Credentials jobCredentials, Clock clock,
    Map<TaskId, TaskInfo> completedTasksFromPreviousRun, MRAppMetrics metrics,
    OutputCommitter committer, boolean newApiCommitter, String userName,
    long appSubmitTime, List<AMInfo> amInfos, AppContext appContext,
    JobStateInternal forcedState, String forcedDiagnostic) {
    this.applicationAttemptId = applicationAttemptId;
    this.jobId = jobId;
    this.jobName = conf.get(JobContext.JOB_NAME, "<missing job name>");
    this.conf = new JobConf(conf);
    this.metrics = metrics;
    this.clock = clock;
    this.completedTasksFromPreviousRun = completedTasksFromPreviousRun;
    this.amInfos = amInfos;
    this.appContext = appContext;
    this.userName = userName;
    this.queueName = conf.get(MRJobConfig.QUEUE_NAME, "default");
    this.appSubmitTime = appSubmitTime;
    this.oldJobId = TypeConverter.fromYarn(jobId);
    this.committer = committer;
    this.newApiCommitter = newApiCommitter;

    this.taskAttemptListener = taskAttemptListener;
    this.eventHandler = eventHandler;
    ReadWriteLock readWriteLock = new ReentrantReadWriteLock();
    this.readLock = readWriteLock.readLock();
    this.writeLock = readWriteLock.writeLock();

    this.jobCredentials = jobCredentials;
    this.jobTokenSecretManager = jobTokenSecretManager;

    this.aclsManager = new JobACLsManager(conf);
    this.username = System.getProperty("user.name");
    this.jobACLs = aclsManager.constructJobACLs(conf);
// This "this leak" is okay because the retained pointer is in an
// instance variable.
stateMachine = stateMachineFactory.make(this);
this.forcedState = forcedState;
if(forcedDiagnostic != null) {
    this.diagnostics.add(forcedDiagnostic);
}
}

protected StateMachine<JobStateInternal, JobEventType, JobEvent> getStateMachine() {
    return stateMachine;
}

@Override
public JobId getID() {
    return jobId;
}

EventHandler getEventHandler() {
    return this.eventHandler;
}

JobContext getJobContext() {
    return this.jobContext;
}

@Override
public boolean checkAccess(UserGroupInformation callerUGI,
    JobACL jobOperation) {
    AccessControlList jobACL = jobACLs.get(jobOperation);
    if (jobACL == null) {
        return true;
    }
    return aclsManager.checkAccess(callerUGI, jobOperation, username, jobACL);
}

@Override
public Task getTask(TaskId taskID) {
    readLock.lock();
    try {
        return tasks.get(taskID);
    } finally {
        readLock.unlock();
    }
}

@Override
public int getCompletedMaps() {

readLock.lock();
try {
    return succeededMapTaskCount + failedMapTaskCount + killedMapTaskCount;
} finally {
    readLock.unlock();
}

@Override
public int getCompletedReduces() {
    readLock.lock();
    try {
        return succeededReduceTaskCount + failedReduceTaskCount + killedReduceTaskCount;
    } finally {
        readLock.unlock();
    }
}

@Override
public boolean isUber() {
    return isUber;
}

@Override
public Counters getAllCounters() {
    readLock.lock();
    try {
        JobStateInternal state = getInternalState();
        if (state == JobStateInternal.ERROR || state == JobStateInternal.FAILED ||
            state == JobStateInternal.KILLED || state == JobStateInternal.SUCCEEDED) {
            this.mayBeConstructFinalFullCounters();
            return fullCounters;
        }
        Counters counters = new Counters();
        counters.incrAllCounters(jobCounters);
        return incrTaskCounters(counters, tasks.values());
    } finally {
        readLock.unlock();
    }
}

public static Counters incrTaskCounters(Counters counters, Collection<Task> tasks) {
for (Task task : tasks) {
    counters.incrAllCounters(task.getCounters());
}
return counters;

@Override
public TaskAttemptCompletionEvent[] getTaskAttemptCompletionEvents(int fromEventId, int maxEvents) {
    TaskAttemptCompletionEvent[] events = EMPTY_TASK_ATTEMPT_COMPLETION_EVENTS;
    readLock.lock();
    try {
        if (taskAttemptCompletionEvents.size() > fromEventId) {
            int actualMax = Math.min(maxEvents,
                taskAttemptCompletionEvents.size() - fromEventId);
            events = taskAttemptCompletionEvents.subList(fromEventId,
                actualMax + fromEventId).toArray(events);
        }
        return events;
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskCompletionEvent[] getMapAttemptCompletionEvents(int startIndex, int maxEvents) {
    TaskCompletionEvent[] events = EMPTY_TASK_COMPLETION_EVENTS;
    readLock.lock();
    try {
        if (mapAttemptCompletionEvents.size() > startIndex) {
            int actualMax = Math.min(maxEvents,
                mapAttemptCompletionEvents.size() - startIndex);
            events = mapAttemptCompletionEvents.subList(startIndex,
                actualMax + startIndex).toArray(events);
        }
        return events;
    } finally {
        readLock.unlock();
    }
}

@Override
public List<String> getDiagnostics() {
    readLock.lock();
    try {
        return diagnostics;
    } finally {
        readLock.unlock();
    }
}
readLock.unlock();
}

@Override
public JobReport getReport() {
    readLock.lock();
    try {
        JobState state = getState();

        // jobFile can be null if the job is not yet initied.
        String jobFile =
            remoteJobConfFile == null ? "" : remoteJobConfFile.toString();

        StringBuilder diagsb = new StringBuilder();
        for (String s : getDiagnostics()) {
            diagsb.append(s).append("\n");
        }

        if (getInternalState() == JobStateInternal.NEW) {
            return MRBuilderUtils.newJobReport(jobId, jobName, username, state,
                appSubmitTime, startTime, finishTime, setupProgress, 0.0f, 0.0f,
                cleanupProgress, jobFile, amInfos, isUber, diagsb.toString());
        }

        computeProgress();
        JobReport report = MRBuilderUtils.newJobReport(jobId, jobName, username,
            state, appSubmitTime, startTime, finishTime, setupProgress,
            this.mapProgress, this.reduceProgress,
            cleanupProgress, jobFile, amInfos, isUber, diagsb.toString());
        return report;
    } finally {
        readLock.unlock();
    }
}

@Override
public float getProgress() {
    this.readLock.lock();
    try {
        computeProgress();
        return (this.setupProgress * this.setupWeight + this.cleanupProgress
            * this.cleanupWeight + this.mapProgress * this.mapWeight + this.reduceProgress
            * this.reduceWeight);
    } finally {
        this.readLock.unlock();
    }
}
private void computeProgress() {
    this.readLock.lock();
    try {
        float mapProgress = 0f;
        float reduceProgress = 0f;
        for (Task task : this.tasks.values()) {
            if (task.getType() == TaskType.MAP) {
                mapProgress += (task.isFinished() ? 1f : task.getProgress());
            } else {
                reduceProgress += (task.isFinished() ? 1f : task.getProgress());
            }
        }
        if (this.numMapTasks != 0) {
            mapProgress = mapProgress / this.numMapTasks;
        }
        if (this.numReduceTasks != 0) {
            reduceProgress = reduceProgress / this.numReduceTasks;
        }
        this.mapProgress = mapProgress;
        this.reduceProgress = reduceProgress;
    } finally {
        this.readLock.unlock();
    }
}

@Override
public Map<TaskId, Task> getTasks() {
    synchronized (tasksSyncHandle) {
        lazyTasksCopyNeeded = true;
        return Collections.unmodifiableMap(tasks);
    }
}

@Override
public Map<TaskId, Task> getTasks(TaskType taskType) {
    Map<TaskId, Task> localTasksCopy = tasks;
    Map<TaskId, Task> result = new HashMap<TaskId, Task>();
    Set<TaskId> tasksOfGivenType = null;
    readLock.lock();
    try {
        if (TaskType.MAP == taskType) {
            tasksOfGivenType = mapTasks;
        } else {
            tasksOfGivenType = reduceTasks;
        }
        for (TaskId taskID : tasksOfGivenType) {
            result.put(taskID, localTasksCopy.get(taskID));
        }
    } finally {
        readLock.unlock();
    }
    return result;
}
return result;
} finally {
    readLock.unlock();
}

@Override
public JobState getState() {
    readLock.lock();
    try {
        JobState state = getExternalState(getInternalState());
        if (!appContext.hasSuccessfullyUnregistered() 
            & state == JobState.SUCCEEDED || state == JobState.FAILED 
            || state == JobState.KILLED || state == JobState.ERROR)) {
            return lastNonFinalState;
        } else {
            return state;
        }
    } finally {
        readLock.unlock();
    }
}

protected void scheduleTasks(Set<TaskId> taskIDs, 
    boolean recoverTaskOutput) {
    for (TaskId taskID : taskIDs) {
        TaskInfo taskInfo = completedTasksFromPreviousRun.remove(taskID);
        if (taskInfo != null) {
            eventHandler.handle(new TaskRecoverEvent(taskID, taskInfo, 
                committer, recoverTaskOutput));
        } else {
            eventHandler.handle(new TaskEvent(taskID, TaskEventType.T_SCHEDULE));
        }
    }
}

@Override
/**
 * The only entry point to change the Job.
 */
public void handle(JobEvent event) {
    if (LOG.isDebugEnabled()) {
        LOG.debug("Processing {} of type ", event.getJobId() + " of type ", event.getType());
    }
    try {
        writeLock.lock();
        JobStateInternal oldState = getInternalState();
    } finally {
        writeLock.unlock();
    }
try {
    getStateMachine().doTransition(event.getType(), event);
} catch (InvalidStateTransitionException e) {
    LOG.error("Can't handle this event at current state", e);
    addDiagnostic("Invalid event " + event.getType() +
    " on Job " + this.jobId);
    eventHandler.handle(new JobEvent(this.jobId,
        JobEventType.INTERNAL_ERROR));
}
// notify the event handler of state change
if (oldState != getInternalState()) {
    LOG.info(jobId + "Job Transitioned from " + oldState + " to " +
           getInternalState());
    rememberLastNonFinalState(oldState);
}

finally {
    writeLock.unlock();
}

private void rememberLastNonFinalState(JobStateInternal stateInternal) {
    JobState state = getExternalState(stateInternal);
    // if state is not the final state, set lastNonFinalState
    if (state != JobState.SUCCEEDED && state != JobState.FAILED
        && state != JobState.KILLED && state != JobState.ERROR) {
        lastNonFinalState = state;
    }
}

@Private
public JobStateInternal getInternalState() {
    readLock.lock();
    try {
        if (forcedState != null) {
            return forcedState;
        }
        return getStateMachine().getCurrentState();
    } finally {
        readLock.unlock();
    }
}

private JobState getExternalState(JobStateInternal smState) {
    switch (smState) {
    case KILL_WAIT:
    case KILL_ABORT:
return JobState.KILLED;
case SETUP:
case COMMITTING:
  return JobState.RUNNING;
case FAIL_WAIT:
case FAIL_ABORT:
  return JobState.FAILED;
case REBOOT:
  if (appContext.isLastAMRetry()) {
    return JobState.ERROR;
  } else {
    // In case of not last retry, return the external state as RUNNING since
    // otherwise JobClient will exit when it polls the AM for job state
    return JobState.RUNNING;
  }
default:
  return JobState.valueOf(smState.name());
}

// helpful in testing
protected void addTask(Task task) {
  synchronized (tasksSyncHandle) {
    if (lazyTasksCopyNeeded) {
      Map<TaskId, Task> newTasks = new LinkedHashMap<TaskId, Task>();
      newTasks.putAll(tasks);
      tasks = newTasks;
      lazyTasksCopyNeeded = false;
    }
  }
  tasks.put(task.getID(), task);
  if (task.getType() == TaskType.MAP) {
    mapTasks.add(task.getID());
  } else if (task.getType() == TaskType.REDUCE) {
    reduceTasks.add(task.getID());
  }
  metrics.waitingTask(task);
}

void setFinishTime() {
  finishTime = clock.getTime();
}

void logJobHistoryFinishedEvent() {
  void setFinishTime();
  JobFinishedEvent jfe = createJobFinishedEvent(this);
  LOG.info("Calling handler for JobFinishedEvent ");
}
this.getEventHandler().handle(new JobHistoryEvent(this.jobId, jfe));

/**
 * Create the default file system for this job.
 * @param conf the conf object
 * @return the default filesystem for this job
 * @throws IOException
 */
protected FileSystem getFileSystem(Configuration conf) throws IOException {
    return FileSystem.get(conf);
}

protected JobStateInternal checkReadyForCommit() {
    JobStateInternal currentState = getInternalState();
    if (completedTaskCount == tasks.size() && currentState == JobStateInternal.RUNNING) {
        eventHandler.handle(new CommitJobCommitEvent(jobId, getJobContext()));
        return JobStateInternal.COMMITTING;
    }
    // return the current state as job not ready to commit yet
    return getInternalState();
}

JobStateInternal finished(JobStateInternal finalState) {
    if (getInternalState() == JobStateInternal.RUNNING) {
        metrics.endRunningJob(this);
    }
    if (finishTime == 0) setFinishTime();
    eventHandler.handle(new JobFinishEvent(jobId));

    switch (finalState) {
    case KILLED:
        metrics.killedJob(this);
        break;
    case REBOOT:
    case ERROR:
    case FAILED:
        metrics.failedJob(this);
        break;
    case SUCCEEDED:
        metrics.completedJob(this);
        break;
    default:
        throw new IllegalArgumentException("Illegal job state: "+ finalState);
    }
    return finalState;
}
@Override
public String getUserName() {
    return userName;
}

@Override
public String getQueueName() {
    return queueName;
}

/**
 * (non-Javadoc)
 * @see org.apache.hadoop.mapreduce.v2.app.job.Job#getConfFile()
 */
@Override
public Path getConfFile() {
    return remoteJobConfFile;
}

@override
public String getName() {
    return jobName;
}

@Override
public int getTotalMaps() {
    return mapTasks.size();  //FIXME: why indirection? return numMapTasks...
    // unless race? how soon can this get called?
}

@Override
public int getTotalReduces() {
    return reduceTasks.size();  //FIXME: why indirection? return numReduceTasks
}

/**
 * (non-Javadoc)
 * @see org.apache.hadoop.mapreduce.v2.app.job.Job#getJobACLs()
 */
@Override
public Map<JobACL, AccessControlList> getJobACLs() {
    return Collections.unmodifiableMap(jobACLs);
}

@Override
public List<AMInfo> getAMInfos() {
    return amInfos;
}
/**
* Decide whether job can be run in uber mode based on various criteria.
* @param dataInputLength Total length for all splits
*/
private void makeUberDecision(long dataInputLength) {
    //FIXME: need new memory criterion for uber-decision (oops, too late here;
    // until AM-resizing supported,
    // must depend on job client to pass fat-slot needs)
    // these are no longer "system" settings, necessarily; user may override
    int sysMaxMaps = conf.getInt(MRJobConfig.JOB_UBERTASK_MAXMAPS, 9);
    //FIXME: handling multiple reduces within a single AM does not seem to
    // work.
    int sysMaxReduces = conf.getInt(MRJobConfig.JOB_UBERTASK_MAXREDUCES, 1);
    boolean isValidUberMaxReduces = (sysMaxReduces == 0)
            || (sysMaxReduces == 1);
    long sysMaxBytes = conf.getLong(MRJobConfig.JOB_UBERTASK_MAXBYTES,
            fs.getDefaultBlockSize(this.remoteJobSubmitDir)); // FIXME: this is wrong: get FS from
    // [File?]InputFormat and default block size
    // from that
    long sysMemSizeForUberSlot =
            conf.getInt(MRJobConfig.MR_AM_VMEM_MB,
                    MRJobConfig.DEFAULT_MR_AM_VMEM_MB);
    long sysCPUSizeForUberSlot =
            conf.getInt(MRJobConfig.MR_AM_CPU_VCORES,
                    MRJobConfig.DEFAULT_MR_AM_CPU_VCORES);
    boolean uberEnabled =
            conf.getBoolean(MRJobConfig.JOB_UBERTASK_ENABLE, false);
    boolean smallNumMapTasks = (numMapTasks <= sysMaxMaps);
    boolean smallNumReduceTasks = (numReduceTasks <= sysMaxReduces);
    boolean smallInput = (dataInputLength <= sysMaxBytes);
    // ignoring overhead due to UberAM and statics as negligible here:
    boolean smallMemory =
            ( (Math.max(conf.getLong(MRJobConfig.MAP_MEMORY_MB, 0),
                    conf.getLong(MRJobConfig.REDUCE_MEMORY_MB, 0))
                    <= sysMemSizeForUberSlot)
            || (sysMemSizeForUberSlot == JobConf.DISABLED_MEMORY_LIMIT));
    boolean smallCpu =
            ( Math.max(
                    conf.getInt( 
                            MRJobConfig.MAP_CPU_VCORES,
                    ...
boolean notChainJob = !isChainJob(conf);

// User has overall veto power over uberization, or user can modify
// limits (overriding system settings and potentially shooting
// themselves in the head). Note that ChainMapper/Reducer are
// fundamentally incompatible with MR-i220; they employ a blocking
// queue between the maps/reduces and thus require parallel execution,
// while "uber-AM" (MR AM + LocalContainerLauncher) loops over tasks
// and thus requires sequential execution.
isUber = uberEnabled && smallNumMapTasks && smallNumReduceTasks
        && smallInput && smallMemory && smallCpu
        && notChainJob && isValidUberMaxReduces;

if (isUber) {
    LOG.info("Uberizing job " + jobId + ": " + numMapTasks + "m+
            + numReduceTasks + "r tasks (" + dataInputLength
            + " input bytes) will run sequentially on single node.");

    // make sure reduces are scheduled only after all map are completed
    conf.setFloat(MRJobConfig.COMPLETED_MAPS_FOR_REDUCE_SLOWSTART, 1.0f);
    // uber-subtask attempts all get launched on same node; if one fails,
    // probably should retry elsewhere, i.e., move entire uber-AM: ergo,
    // limit attempts to 1 (or at most 2? probably not...)
    conf.setInt(MRJobConfig.MAP_MAX_ATTEMPTS, 1);
    conf.setInt(MRJobConfig.REDUCE_MAX_ATTEMPTS, 1);

    // disable speculation
    conf.setBoolean(MRJobConfig.MAP_SPECULATIVE, false);
    conf.setBoolean(MRJobConfig.REDUCE_SPECULATIVE, false);
} else {
    StringBuilder msg = new StringBuilder();
    msg.append("Not uberizing ").append(jobId).append(" because:");
    if (!uberEnabled)
        msg.append(" not enabled;");
    if (!smallNumMapTasks)
        msg.append(" too many maps;");
    if (!smallNumReduceTasks)
        msg.append(" too many reduces;");
    if (!smallInput)
        msg.append(" too much input;");
    if (!smallMemory)
msg.append(" too much RAM;");
if (!notChainJob)
  msg.append(" chainjob;");
if (!isValidUberMaxReduces)
  msg.append(" not supported uber max reduces");
LOG.info(msg.toString());
}

/**
 * ChainMapper and ChainReducer must execute in parallel, so they're not compatible with uberization/LocalContainerLauncher (100% sequential).
 */
private boolean isChainJob(Configuration conf) {
  boolean isChainJob = false;
  try {
    String mapClassName = conf.get(MRJobConfig.MAP_CLASS_ATTR);
    if (mapClassName != null) {
      Class<?> mapClass = Class.forName(mapClassName);
      if (ChainMapper.class.isAssignableFrom(mapClass))
        isChainJob = true;
    }
  } catch (ClassNotFoundException cnfe) {
    // don't care; assume it's not derived from ChainMapper
  }
  try {
    String reduceClassName = conf.get(MRJobConfig.REDUCE_CLASS_ATTR);
    if (reduceClassName != null) {
      Class<?> reduceClass = Class.forName(reduceClassName);
      if (ChainReducer.class.isAssignableFrom(reduceClass))
        isChainJob = true;
    }
  } catch (ClassNotFoundException cnfe) {
    // don't care; assume it's not derived from ChainReducer
  }
  return isChainJob;
}

private void actOnUnusableNode(NodeId nodeId, NodeState nodeState) {
  // rerun previously successful map tasks
  List<TaskAttemptId> taskAttemptIdList = nodesToSucceededTaskAttempts.get(nodeId);
  if(taskAttemptIdList != null) {
    String mesg = "Task Attempt killed because it ran on unusable node "+ nodeId;
    for(TaskAttemptId id : taskAttemptIdList) {
      if(TaskType.MAP == id.getTaskId().getType()) {
        // reschedule only map tasks because their outputs maybe unusable
        LOG.info(mesg + ". AttemptId:" + id);
      }
    }
  }
}
eventHandler.handle(new TaskAttemptKillEvent(id, mesg));
}
}
// currently running task attempts on unusable nodes are handled in
// RMContainerAllocator
}

/*
private int getBlockSize() {
    String inputClassName = conf.get(MRJobConf.INPUT_FORMAT_CLASS_ATTR);
    if (inputClassName != null) {
        Class<?> inputClass = Class.forName(inputClassName);
        if (FileInputFormat<K, V>)
    }
}
/*/ 
/**
 * Get the workflow adjacencies from the job conf
 * The string returned is of the form "key"="value" "key"="value" ...
 */
private static String getWorkflowAdjacencies(Configuration conf) {
    int prefixLen = MRJobConfig.WORKFLOW_ADJACENCY_PREFIX_STRING.length();
    Map<String,String> adjacencies =
        conf.getValByRegex(MRJobConfig.WORKFLOW_ADJACENCY_PREFIX_PATTERN);
    if (adjacencies.isEmpty()) {
        return "";
    }
    int size = 0;
    for (Entry<String,String> entry : adjacencies.entrySet()) {
        int keyLen = entry.getKey().length();
        size += keyLen - prefixLen;
        size += entry.getValue().length() + 6;
    }
    StringBuilder sb = new StringBuilder(size);
    for (Entry<String,String> entry : adjacencies.entrySet()) {
        int keyLen = entry.getKey().length();
        sb.append("\"");
        sb.append(escapeString(entry.getKey().substring(prefixLen, keyLen)));
        sb.append("\"=");
        sb.append(escapeString(entry.getValue()));
        sb.append(" ");
    }
    return sb.toString();
}

public static String escapeString(String data) {
    return StringUtils.escapeString(data, StringUtils.ESCAPE_CHAR,

public static class InitTransition
    implements MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {

    /**
     * Note that this transition method is called directly (and synchronously)
     * by MRAppMaster's init() method (i.e., no RPC, no thread-switching;
     * just plain sequential call within AM context), so we can trigger
     * modifications in AM state from here (at least, if AM is written that
     * way; MR version is).
     */
    @Override
    public JobStateInternal transition(JobImpl job, JobEvent event) {
        job.metrics.submittedJob(job);
        job.metrics.preparingJob(job);
        try {
            setup(job);
            job.fs = job.getFileSystem(job.conf);
            //log to job history
            JobSubmittedEvent jse = new JobSubmittedEvent(job.oldJobId,
                job.conf.get(MRJobConfig.JOB_NAME, "test"),
                job.conf.get(MRJobConfig.USER_NAME, "mapred"),
                job.appSubmitTime,
                job.remoteJobConfFile.toString(),
                job.jobACLs, job.queueName,
                job.conf.get(MRJobConfig.WORKFLOW_ID, ""),
                job.conf.get(MRJobConfig.WORKFLOW_NAME, ""),
                job.conf.get(MRJobConfig.WORKFLOW_NODE_NAME, ""),
                getWorkflowAdjacencies(job.conf),
                job.conf.get(MRJobConfig.WORKFLOW_TAGS, ""));
            job.eventHandler.handle(new JobHistoryEvent(job.jobId, jse));
            //TODO JH Verify jobACLs, UserName via UGI?
            TaskSplitMetaInfo[] taskSplitMetaInfo = createSplits(job, job.jobId);
            job.numMapTasks = taskSplitMetaInfo.length;
            job.numReduceTasks = job.conf.getInt(MRJobConfig.NUM_REDUCES, 0);

            if (job.numMapTasks == 0 && job.numReduceTasks == 0) {
                job.addDiagnostic("No of maps and reduces are 0 " + job.jobId);
            } else if (job.numMapTasks == 0) {
                job.reduceWeight = 0.9f;
            } else if (job.numReduceTasks == 0) {
                job.mapWeight = 0.9f;
            } else {
                job.mapWeight = job.reduceWeight = 0.45f;
            }
        } finally {
            //...
checkTaskLimits();

if (job.newApiCommitter) {
    job.jobContext = new JobContextImpl(job.conf,
            job.oldJobId);
} else {
    job.jobContext = new org.apache.hadoop.mapred.JobContextImpl(
            job.conf, job.oldJobId);
}

long inputLength = 0;
for (int i = 0; i < job.numMapTasks; ++i) {
    inputLength += taskSplitMetaInfo[i].getInputDataLength();
}

job.makeUberDecision(inputLength);

job.taskAttemptCompletionEvents =
    new ArrayList<TaskAttemptCompletionEvent>(
        job.numMapTasks + job.numReduceTasks + 10);
job.mapAttemptCompletionEvents =
    new ArrayList<TaskCompletionEvent>(job.numReduceTasks + 10);
job.taskCompletionIdxToMapCompletionIdx = new ArrayList<Integer>(
        job.numMapTasks + job.numReduceTasks + 10);

job.allowedMapFailuresPercent =
    job.conf.getInt(MRJobConfig.MAP_FAILURES_MAX_PERCENT, 0);
job.allowedReduceFailuresPercent =
    job.conf.getInt(MRJobConfig.REDUCE_FAILURES_MAXPERCENT, 0);

// create the Tasks but don't start them yet
createMapTasks(job, inputLength, taskSplitMetaInfo);
createReduceTasks(job);

job.metrics.endPreparingJob(job);
return JobStateInternal.INITIED;
} catch (IOException e) {
    LOG.warn("Job init failed", e);
    job.metrics.endPreparingJob(job);
    job.addDiagnostic("Job init failed : " + StringUtils.stringifyException(e));
    job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
        job.jobContext,
        org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
    return JobStateInternal.FAILED;
}
protected void setup(JobImpl job) throws IOException {

    String oldJobIDString = job.oldJobId.toString();
    String user =
        UserGroupInformation.getCurrentUser().getShortUserName();
    Path path = MRApps.getStagingAreaDir(job.conf, user);
    if(LOG.isDebugEnabled()) {
        LOG.debug("startJobs: parent=" + path + " child=" + oldJobIDString);
    }

    job.remoteJobSubmitDir =
        FileSystem.get(job.conf).makeQualified(
            new Path(path, oldJobIDString));
    job.remoteJobConfFile =
        new Path(job.remoteJobSubmitDir, MRJobConfig.JOB_CONF_FILE);

    // Prepare the TaskAttemptListener server for authentication of Containers
    // TaskAttemptListener gets the information via jobTokenSecretManager.
    JobTokenIdentifier identifier =
        new JobTokenIdentifier(new Text(oldJobIDString));
    job.jobToken =
        new Token<JobTokenIdentifier>(identifier, job.jobTokenSecretManager);
    job.jobToken.setService(identifier.getJobId());
    // Add it to the jobTokenSecretManager so that TaskAttemptListener server
    // can authenticate containers(tasks)
    job.jobTokenSecretManager.addTokenForJob(oldJobIDString, job.jobToken);
    LOG.info("Adding job token for " + oldJobIDString
        + " to jobTokenSecretManager");

    // If the job client did not setup the shuffle secret then reuse
    // the job token secret for the shuffle.
    if (TokenCache.getShuffleSecretKey(job.jobCredentials) == null) {
        LOG.warn("Shuffle secret key missing from job credentials." + " Using job token secret as shuffle secret.");
        TokenCache.setShuffleSecretKey(job.jobToken.getPassword(),
            job.jobCredentials);
    }
}

private void createMapTasks(JobImpl job, long inputLength,
    TaskSplitMetaInfo[] splits) {
    for (int i=0; i < job.numMapTasks; ++i) {
        TaskImpl task =
            new MapTaskImpl(job.jobId, i,
                job.eventHandler,
                job.remoteJobConfFile,
private void createReduceTasks(JobImpl job) {
    for (int i = 0; i < job.numReduceTasks; i++) {
        TaskImpl task =
            new ReduceTaskImpl(job.jobId, i,
                                job.eventHandler,
                                job.remoteJobConfFile,
                                job.conf, job.numMapTasks,
                                job.taskAttemptListener, job.jobToken,
                                job.jobCredentials, job.clock,
                                job.applicationAttemptId.getAttemptId(),
                                job.metrics, job.appContext);
        job.addTask(task);
    }
    LOG.info("Number of reduces for job " + job.jobId + " = " + job.numReduceTasks);
}

protected TaskSplitMetaInfo[] createSplits(JobImpl job, JobId jobId) {
    TaskSplitMetaInfo[] allTaskSplitMetaInfo;
    try {
        allTaskSplitMetaInfo = SplitMetaInfoReader.readSplitMetaInfo(
            job.oldJobId, job.fs,
            job.conf,
            job.remoteJobSubmitDir);
    } catch (IOException e) {
        throw new YarnRuntimeException(e);
    }
    return allTaskSplitMetaInfo;
}

/**
 * If the number of tasks are greater than the configured value
 * throw an exception that will fail job initialization
 */
private void checkTaskLimits() {
    // no code, for now
}
private static class SetupCompletedTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.setupProgress = 1.0f;
        job.scheduleTasks(job.mapTasks, job.numReduceTasks == 0);
        job.scheduleTasks(job.reduceTasks, true);

        // If we have no tasks, just transition to job completed
        if (job.numReduceTasks == 0 && job.numMapTasks == 0) {
            job.eventHandler.handle(new JobEvent(job.jobId,
                JobEventType.JOB_COMPLETED));
        }
    }
}

private static class SetupFailedTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.metrics.endRunningJob(job);
        job.addDiagnostic("Job setup failed : "
            + ((JobSetupFailedEvent) event).getMessage());
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
    }
}

public static class StartTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    /**
     * This transition executes in the event-dispatcher thread, though it's
     * triggered in MRAppMaster's startJobs() method.
     */
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobStartEvent jse = (JobStartEvent) event;
        if (jse.getRecoveredJobStartTime() != 0) {
            job.startTime = jse.getRecoveredJobStartTime();
        } else {
            job.startTime = job.clock.getTime();
        }
    }
}
private static class JobFailWaitTransition implements MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {
    @Override
    public JobStateInternal transition(JobImpl job, JobEvent event) {
        if (!job.failWaitTriggerScheduledFuture.isCancelled()) {
            for (Task task : job.tasks.values()) {
                if (!task.isFinished()) {
                    // This transition happens when a job is to be killed. It waits for all the
                    // tasks to finish/be killed.
                    task.failWaitTrigger.scheduleFutureFromNow(100, TimeUnit.MILLISECONDS);
                }
            }
        }
    }
}

private static class JobAbortCompletedTransition implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobStateInternal finalState = JobStateInternal.valueOf(((JobAbortCompletedEvent) event).getFinalState().name());
        job.unsuccessfulFinish(finalState);
    }
}

private void unsuccessfulFinish(JobStateInternal finalState) {
    if (finishTime == 0) setFinishTime();
    cleanupProgress = 1.0f;
    JobUnsuccessfulCompletionEvent unsuccessfulJobEvent = new JobUnsuccessfulCompletionEvent(oldJobId, finishTime, succeededMapTaskCount, succeededReduceTaskCount, finalState.toString());
    eventHandler.handle(new JobHistoryEvent(jobId, unsuccessfulJobEvent));
    finished(finalState);
}

private static class JobFailWaitTransition implements MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {
    @Override
    public JobStateInternal transition(JobImpl job, JobEvent event) {
        if (!job.failWaitTriggerScheduledFuture.isCancelled()) {
            for (Task task : job.tasks.values()) {
                if (!task.isFinished()) {
                    // This transition happens when a job is to be killed. It waits for all the
                    // tasks to finish/be killed.
                    task.failWaitTrigger.scheduleFutureFromNow(100, TimeUnit.MILLISECONDS);
                }
            }
        }
    }
}
return JobStateInternal.FAIL_WAIT;
}
}

// Finished waiting. All tasks finished / were killed
job.failWaitTriggerScheduledFuture.cancel(false);
job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
return JobStateInternal.FAIL_ABORT;
}
}

// This transition happens when a job to be failed times out while waiting on
// tasks that had been sent the KILL signal. It is triggered by a
// ScheduledFuture task queued in the executor.
private static class JobFailWaitTimedOutTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        LOG.info("Timeout expired in FAIL_WAIT waiting for tasks to get killed."
            + " Going to fail job anyway");
        job.failWaitTriggerScheduledFuture.cancel(false);
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
    }
}

// JobFinishedEvent triggers the move of the history file out of the staging
// area. May need to create a new event type for this if JobFinished should
// not be generated for KilledJobs, etc.
private static JobFinishedEvent createJobFinishedEvent(JobImpl job) {
    job.maybeConstructFinalFullCounters();

    JobFinishedEvent jfe = new JobFinishedEvent(
        job.oldJobId, job.finishTime,
        job.succeededMapTaskCount, job.succeededReduceTaskCount,
        job.failedMapTaskCount, job.failedReduceTaskCount,
        job.finalMapCounters,
        job.finalReduceCounters,
        job.fullCounters);
    return jfe;
}

private void maybeConstructFinalFullCounters() {
    // Calculating full-counters. This should happen only once for the job.
    synchronized (this.fullCountersLock) {
        if (this.fullCounters != null) {
// Already constructed. Just return.
return;
}
this.constructFinalFullcounters();
}
}

@Private
public void constructFinalFullcounters() {
this.fullCounters = new Counters();
this.finalMapCounters = new Counters();
this.finalReduceCounters = new Counters();
this.fullCounters.incrAllCounters(jobCounters);
for (Task t : this.tasks.values()) {
    Counters counters = t.getCounters();
    switch (t.getType()) {
        case MAP:
            this.finalMapCounters.incrAllCounters(counters);
            break;
        case REDUCE:
            this.finalReduceCounters.incrAllCounters(counters);
            break;
        default:
            throw new IllegalStateException("Task type neither map nor reduce: "+
                t.getType());
    }
    this.fullCounters.incrAllCounters(counters);
}

// Task-start has been moved out of InitTransition, so this arc simply
// hardcodes 0 for both map and reduce finished tasks.
private static class KillNewJobTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.setFinishTime();
        JobUnsuccessfulCompletionEvent failedEvent =
            new JobUnsuccessfulCompletionEvent(job.oldJobId,
                job.finishTime, 0, 0,
                JobStateInternal.KILLED.toString());
        job.eventHandler.handle(new JobHistoryEvent(job.jobId, failedEvent));
        job.finished(JobStateInternal.KILLED);
    }
}

private static class KillInitedJobTransition
    implements SingleArcTransition<JobImpl, JobEvent> {

@Override
public void transition(JobImpl job, JobEvent event) {
    job.addDiagnostic("Job received Kill in INITED state.");
    job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
}
}

private static class KilledDuringSetupTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.metrics.endRunningJob(job);
        job.addDiagnostic("Job received kill in SETUP state.");
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
                job.jobContext,
                org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
    }
    }

private static class KillTasksTransition
    implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.addDiagnostic("Job received Kill while in RUNNING state.");
        for (Task task : job.tasks.values()) {
            job.eventHandler.handle(
                    new TaskEvent(task.getID(), TaskEventType.T_KILL));
        }
        job.metrics.endRunningJob(job);
    }
    }

private static class TaskAttemptCompletedEventTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        TaskAttemptCompletionEvent tce =
            ((JobTaskAttemptCompletedEvent) event).getCompletionEvent();
        // Add the TaskAttemptCompletionEvent
        //eventId is equal to index in the arraylist
        tce.setEventId(job.taskAttemptCompletionEvents.size());
        job.taskAttemptCompletionEvents.add(tce);
        int mapEventIdx = -1;
        if (TaskType.MAP.equals(tce.getAttemptId().getTaskId().getTaskType())) {
            // we track map completions separately from task completions because
            // - getMapAttemptCompletionEvents uses index ranges specific to maps
// - type converting the same events over and over is expensive
mapEventIdx = job.mapAttemptCompletionEvents.size();
job.mapAttemptCompletionEvents.add(TypeConverter.fromYarn(tce));
}
job.taskCompletionIdxToMapCompletionIdx.add(mapEventIdx);

TaskAttemptId attemptId = tce.getAttemptId();
TaskId taskId = attemptId.getTaskId();
//make the previous completion event as obsolete if it exists
Integer successEventNo =
    job.successAttemptCompletionEventNoMap.remove(taskId);
if (successEventNo != null) {
    TaskAttemptCompletionEvent successEvent =
        job.taskAttemptCompletionEvents.get(successEventNo);
    successEvent.setStatus(TaskAttemptCompletionEventStatus.OBSOLETE);
    int mapCompletionIdx =
        job.taskCompletionIdxToMapCompletionIdx.get(successEventNo);
    if (mapCompletionIdx >= 0) {
        // update the corresponding TaskCompletionEvent for the map
        TaskCompletionEvent mapEvent =
            job.mapAttemptCompletionEvents.get(mapCompletionIdx);
        job.mapAttemptCompletionEvents.set(mapCompletionIdx,
            new TaskCompletionEvent(mapEvent.getEventId(),
                mapEvent.getTaskAttemptId(), mapEvent.idWithinJob(),
                mapEvent.isMapTask(), TaskCompletionEvent.Status.OBSOLETE,
                mapEvent.getTaskTrackerHttp()));
    }
}

// if this attempt is not successful then why is the previous successful
// attempt being removed above - MAPREDUCE-4330
if (TaskAttemptCompletionEventStatus.SUCCEEDED.equals(tce.getStatus())) {
    job.successAttemptCompletionEventNoMap.put(taskId, tce.getEventId());
    // here we could have simply called Task.getSuccessfulAttempt() but
    // the event that triggers this code is sent before
    // Task.successfulAttempt is set and so there is no guarantee that it
    // will be available now
    Task task = job.tasks.get(taskId);
    TaskAttempt attempt = task.getAttempt(attemptId);
    NodeId nodeId = attempt.getNodeId();
    assert (nodeId != null); // node must exist for a successful event
    List<TaskAttemptId> taskAttemptIdList = job.nodesToSucceededTaskAttempts
        .get(nodeId);
    if (taskAttemptIdList == null) {
        taskAttemptIdList = new ArrayList<TaskAttemptId>();
    }
}
private static class TaskAttemptFetchFailureTransition implements SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        // get number of shuffling reduces
        int shufflingReduceTasks = 0;
        for (TaskId taskId : job.reduceTasks) {
            Task task = job.tasks.get(taskId);
            if (TaskState.RUNNING.equals(task.getState())) {
                for (TaskAttempt attempt : task.getAttempts().values()) {
                    if (attempt.getPhase() == Phase.SHUFFLE) {
                        shufflingReduceTasks++;
                        break;
                    }
                }
            }
        }

        JobTaskAttemptFetchFailureEvent fetchfailureEvent = (JobTaskAttemptFetchFailureEvent) event;
        for (org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId mapId : fetchfailureEvent.getMaps()) {
            Integer fetchFailures = job.fetchFailuresMapping.get(mapId);
            fetchFailures = (fetchFailures == null) ? 1 : (fetchFailures + 1);
            job.fetchFailuresMapping.put(mapId, fetchFailures);

            float failureRate = shufflingReduceTasks == 0 ? 1.0f :
                (float) fetchFailures / shufflingReduceTasks;
            if (failureRate >= MAX_ALLOWED_FETCH_FAILURES_FRACTION) {
                LOG.info("Too many fetch-failures for output of task attempt: " + mapId + " ... raising fetch failure to map");
                job.eventHandler.handle(new TaskAttemptEvent(mapId, TaskAttemptEventType.TA_TOO_MANY_FETCH_FAILURE));
                job.fetchFailuresMapping.remove(mapId);
            }
        }
    }

    private static class TaskCompletedTransition implements
MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> { 

@Override 
public JobStateInternal transition(JobImpl job, JobEvent event) { 
    job.completedTaskCount++; 
    LOG.info("Num completed Tasks: " + job.completedTaskCount); 
    JobTaskEvent taskEvent = (JobTaskEvent) event; 
    Task task = job.tasks.get(taskEvent.getTaskID()); 
    if (taskEvent.getState() == TaskState.SUCCEEDED) { 
        taskSucceeded(job, task); 
    } else if (taskEvent.getState() == TaskState.FAILED) { 
        taskFailed(job, task); 
    } else if (taskEvent.getState() == TaskState.KILLED) { 
        taskKilled(job, task); 
    } 

    return checkJobAfterTaskCompletion(job); 
} 

//This class is used to queue a ScheduledFuture to send an event to a job 
//after some delay. This can be used to wait for maximum amount of time 
//before proceeding anyway. e.g. When a job is waiting in FAIL_WAIT for 
//all tasks to be killed. 
static class TriggerScheduledFuture implements Runnable { 
    JobEvent toSend; 
    JobImpl job; 
    TriggerScheduledFuture(JobImpl job, JobEvent toSend) { 
        this.toSend = toSend; 
        this.job = job; 
    } 
    public void run() { 
        LOG.info("Sending event " + toSend + " to " + job.getID()); 
        job.getEventHandler().handle(toSend); 
    } 
} 

protected JobStateInternal checkJobAfterTaskCompletion(JobImpl job) { 
    //check for Job failure 
    if (job.failedMapTaskCount*100 > 
            job.allowedMapFailuresPercent*job.numMapTasks || 
            job.failedReduceTaskCount*100 > 
            job.allowedReduceFailuresPercent*job.numReduceTasks) { 
        job.setFinishTime(); 

        String diagnosticMsg = "Job failed as tasks failed. " + 
            "failedMaps:" + job.failedMapTaskCount + 
            " failedReduces:" + job.failedReduceTaskCount; 
        LOG.info(diagnosticMsg); 
    }
job.addDiagnostic(diagnosticMsg);

//Send kill signal to all unfinished tasks here.
boolean allDone = true;
for (Task task : job.tasks.values()) {
    if (!task.isFinished()) {
        allDone = false;
        job.eventHandler.handle(
            new TaskEvent(task.getID(), TaskEventType.T_KILL));
    }
}

//If all tasks are already done, we should go directly to FAIL_ABORT
if (allDone) {
    job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
    );
    return JobStateInternal.FAIL_ABORT;
}

//Set max timeout to wait for the tasks to get killed
job.failWaitTriggerScheduledFuture = job.executor.schedule(
    new TriggerScheduledFuture(job, new JobEvent(job.getID(),
        JobEventType.JOB_FAIL_WAIT_TIMEDOUT)), job.conf.getInt(
            MRJobConfig.MR_AM_COMMITTER_CANCEL_TIMEOUT_MS,
            MRJobConfig.DEFAULT_MR_AM_COMMITTER_CANCEL_TIMEOUT_MS),
    TimeUnit.MILLISECONDS);
return JobStateInternal.FAIL_WAIT;

return job.checkReadyForCommit();
}

private void taskSucceeded(JobImpl job, Task task) {
    if (task.getType() == TaskType.MAP) {
        job.succeededMapTaskCount++;
    } else {
        job.succeededReduceTaskCount++;
    }
    job.metrics.completedTask(task);
}

private void taskFailed(JobImpl job, Task task) {
    if (task.getType() == TaskType.MAP) {
        job.failedMapTaskCount++;
    } else if (task.getType() == TaskType.REDUCE) {
        job.failedReduceTaskCount++;
    }
job.addDiagnostic("Task failed " + task.getID());
job.metrics.failedTask(task);
}

private void taskKilled(JobImpl job, Task task) {
if (task.getType() == TaskType.MAP) {
    job.killedMapTaskCount++;
} else if (task.getType() == TaskType.REDUCE) {
    job.killedReduceTaskCount++;
}
job.metrics.killedTask(task);
}

// Transition class for handling jobs with no tasks
private static class JobNoTasksCompletedTransition implements
    MultipleArcTransition<JobImpl, JobEvent, JobStateInternal> {  
    @Override
    public JobStateInternal transition(JobImpl job, JobEvent event) {
        return job.checkReadyForCommit();
    }
}

private static class CommitSucceededTransition implements
    SingleArcTransition<JobImpl, JobEvent> {  
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.logJobHistoryFinishedEvent();
        job.finished(JobStateInternal.SUCCEEDED);
    }
}

private static class CommitFailedTransition implements
    SingleArcTransition<JobImpl, JobEvent> {  
    @Override
    public void transition(JobImpl job, JobEvent event) {
        JobCommitFailedEvent jcfe = (JobCommitFailedEvent)event;
        job.addDiagnostic("Job commit failed: " + jcfe.getMessage());
        job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.FAILED));
    }
}

private static class KilledDuringCommitTransition implements
    SingleArcTransition<JobImpl, JobEvent> {  
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.metrics.killedTask(task);
    }
}
public void transition(JobImpl job, JobEvent event) {
    job.setFinishTime();
    job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
            job.jobContext,
            org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
}
}

private static class KilledDuringAbortTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        job.unsuccessfulFinish(JobStateInternal.KILLED);
    }
}
}

private static class MapTaskRescheduledTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
    @Override
    public void transition(JobImpl job, JobEvent event) {
        // succeeded map task is restarted back
        job.completedTaskCount--;
        job.succeededMapTaskCount--;
    }
}
}

private static class KillWaitTaskCompletedTransition extends
    TaskCompletedTransition {
    @Override
    protected JobStateInternal checkJobAfterTaskCompletion(JobImpl job) {
        if (job.completedTaskCount == job.tasks.size()) {
            job.setFinishTime();
            job.eventHandler.handle(new CommitterJobAbortEvent(job.jobId,
                    job.jobContext,
                    org.apache.hadoop.mapreduce.JobStatus.State.KILLED));
            return JobStateInternal.KILL_ABORT;
        }
        // return the current state, Job not finished yet
        return job.getInternalState();
    }
}
}

protected void addDiagnostic(String diag) {
    diagnostics.add(diag);
}

private static class DiagnosticsUpdateTransition implements
    SingleArcTransition<JobImpl, JobEvent> {

@Override
public void transition(JobImpl job, JobEvent event) {
    job.addDiagnostic(((JobDiagnosticsUpdateEvent) event)
            .getDiagnosticUpdate());
}

private static class CounterUpdateTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
@Override
public void transition(JobImpl job, JobEvent event) {
    JobCounterUpdateEvent jce = (JobCounterUpdateEvent) event;
    for (JobCounterUpdateEvent.CounterIncrementalUpdate ci : jce
            .getCounterUpdates()) {
        job.jobCounters.findCounter(ci.getCounterKey()).increment(
                ci.getIncrementValue());
    }
}
}

private static class UpdatedNodesTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
@Override
public void transition(JobImpl job, JobEvent event) {
    JobUpdatedNodesEvent updateEvent = (JobUpdatedNodesEvent) event;
    for(NodeReport nr: updateEvent.getUpdatedNodes()) {
        NodeState nodeState = nr.getNodeState();
        if(nodeState.isUnusable()) {
            // act on the updates
            job.actOnUnusableNode(nr.getNodeId(), nodeState);
        }
    }
}
}

private static class InternalTerminationTransition implements
    SingleArcTransition<JobImpl, JobEvent> {
JobStateInternal terminationState = null;
String jobHistoryString = null;
public InternalTerminationTransition(JobStateInternal stateInternal,
        String jobHistoryString) {
    this.terminationState = stateInternal;
    //mostly a hack for jbhistoryserver
    this.jobHistoryString = jobHistoryString;
}

@Override
public void transition(JobImpl job, JobEvent event) {
//TODO Is this JH event required.
job.setFinishTime();
JobUnsuccessfulCompletionEvent failedEvent =
   new JobUnsuccessfulCompletionEvent(job.oldJobId,
   job.finishTime, 0, 0,
   jobHistoryString);
job.eventHandler.handle(new JobHistoryEvent(job.jobId, failedEvent));
job.finished(terminationState);
}
}

private static class InternalErrorTransition extends InternalTerminationTransition {
   public InternalErrorTransition(){
      super(JobStateInternal.ERROR, JobStateInternal.ERROR.toString());
   }
}

private static class InternalRebootTransition extends InternalTerminationTransition {
   public InternalRebootTransition(){
      super(JobStateInternal.REBOOT, JobStateInternal.ERROR.toString());
   }
}

@Override
public Configuration loadConfFile() throws IOException {
   Path confPath = getConfFile();
   FileContext fc = FileContext.getFileContext(confPath.toUri(), conf);
   Configuration jobConf = new Configuration(false);
   jobConf.addResource(fc.open(confPath), confPath.toString());
   return jobConf;
}
/**
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 */
package org.apache.hadoop.mapreduce.v2.app.job.impl;

import org.apache.hadoop.fs.Path;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.ReduceTaskAttemptImpl;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.metrics.MRAppMetrics;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.util.Clock;

@SuppressWarnings({ "rawtypes" })
public class ReduceTaskImpl extends TaskImpl {

    private final int numMapTasks;

    public ReduceTaskImpl(JobId jobId, int partition,
                           EventHandler eventHandler, Path jobFile, JobConf conf,
                           int numMapTasks, TaskAttemptListener taskAttemptListener,
                           Token<JobTokenIdentifier> jobToken,
                           Credentials credentials, Clock clock,
                           int appAttemptId, MRAppMetrics metrics, AppContext appContext) {
        super(jobId, TaskType.REDUCE, partition, eventHandler, jobFile, conf,
             taskAttemptListener, jobToken, credentials, clock,
             appAttemptId, metrics, appContext);
        this.numMapTasks = numMapTasks;
    }

    @Override
    protected int getMaxAttempts() {
        return conf.getInt(MRJobConfig.REDUCE_MAX_ATTEMPTS, 4);
    }

    @Override
    protected TaskAttemptImpl createAttempt() {
        return new ReduceTaskAttemptImpl(getID(), nextAttemptNumber,
                                          eventHandler, jobFile,
                                          partition, numMapTasks, conf, taskAttemptListener,
                                          jobToken, credentials, clock, appContext);
    }
}
@Override
public TaskType getType() {
    return TaskType.REDUCE;
}

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 */

package org.apache.hadoop.mapreduce.v2.app.job.impl;

import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.UnknownHostException;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.EnumSet;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReentrantReadWriteLock;
import java.util.regex.Pattern;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.DataOutputBuffer;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.JobContext;
import org.apache.hadoop.mapred.MapReduceChildJVM;
import org.apache.hadoop.mapred.ShuffleHandler;
import org.apache.hadoop.mapred.Task;
import org.apache.hadoop.mapred.TaskAttemptContextImpl;
import org.apache.hadoop.mapred.WrappedJvmID;
import org.apache.hadoop.mapred.WrappedProgressSplitsBlock;
import org.apache.hadoop.mapreduce.Counter;
import org.apache.hadoop.mapreduce.Counters;
import org.apache.hadoop.mapreduce.MRJobConfig;
import org.apache.hadoop.mapreduce.OutputCommitter;
import org.apache.hadoop.mapreduce.TaskAttemptContext;
import org.apache.hadoop.mapreduce.TaskCounter;
import org.apache.hadoop.mapreduce.TaskType;
import org.apache.hadoop.mapreduce.jobhistory.JobHistoryEvent;
import org.apache.hadoop.mapreduce.jobhistory.MapAttemptFinishedEvent;
import org.apache.hadoop.mapreduce.jobhistory.ReduceAttemptFinishedEvent;
import org.apache.hadoop.mapreduce.jobhistory.TaskAttemptStartedEvent;
import org.apache.hadoop.mapreduce.jobhistory.TaskAttemptUnsuccessfulCompletionEvent;
import org.apache.hadoop.mapreduce.security.TokenCache;
import org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier;
import org.apache.hadoop.mapreduce.v2.api.records.Avataar;
import org.apache.hadoop.mapreduce.v2.api.records.Locality;
import org.apache.hadoop.mapreduce.v2.api.records.Phase;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptReport;
import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptState;
import org.apache.hadoop.mapreduce.v2.api.records.TaskId;
import org.apache.hadoop.mapreduce.v2.api.records.TaskType;
import org.apache.hadoop.mapreduce.v2.api.records.TaskSubmitEvent;
import org.apache.hadoop.mapreduce.v2.app.AppContext;
import org.apache.hadoop.mapreduce.v2.app.TaskAttemptListener;
import org.apache.hadoop.mapreduce.v2.app.commit.CommitterTaskAbortEvent;
import org.apache.hadoop.mapreduce.v2.app.job.TaskAttemptStateInternal;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobCounterUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.JobEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptContainerAssignedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptContainerLaunchedEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptDiagnosticsUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptEventType;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptKillEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptRecoverEvent;
import org.apache.hadoop.mapreduce.v2.app.job.event.TaskAttemptStatusUpdateEvent;
import org.apache.hadoop.mapreduce.v2.app.launcher.ContainerLauncher;
import org.apache.hadoop.mapreduce.v2.app.launcher.ContainerLauncherEvent;
import org.apache.hadoop.mapreduce.v2.app.rm.ContainerAllocator;
import org.apache.hadoop.mapreduce.v2.app.rm.ContainerAllocatorEvent;
import org.apache.hadoop.mapreduce.v2.app.rm.ContainerRequestEvent;
import org.apache.hadoop.mapreduce.v2.app.speculate.SpeculatorEvent;
import org.apache.hadoop.mapreduce.v2.util.MRApps;
import org.apache.hadoop.mapreduce.net.NetUtils;
import org.apache.hadoop.security.Credentials;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.security.token.Token;
import org.apache.hadoop.util.StringInterner;
import org.apache.hadoop.util.StringUtils;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.AppID;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.LocalResource;
import org.apache.hadoop.yarn.api.records.LocalResourceType;
import org.apache.hadoop.yarn.api.records.LocalResourceVisibility;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.factory.providers.RecordFactoryProvider;
import org.apache.hadoop.yarn.state.InvalidStateTransitonException;
import org.apache.hadoop.yarn.state.MultipleArcTransition;
import org.apache.hadoop.yarn.state.SingleArcTransition;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import org.apache.hadoop.yarn.util.Apps;
import org.apache.hadoop.yarn.util.Clock;
import org.apache.hadoop.yarn.util.ConverterUtils;
import org.apache.hadoop.yarn.util.RackResolver;
import com.google.common.annotations.VisibleForTesting;
import com.google.common.base.Preconditions;

/**
 * Implementation of TaskAttempt interface.
 */
@SuppressWarnings({"rawtypes"})
public abstract class TaskAttemptImpl implements
    org.apache.hadoop.mapreduce.v2.app.job.TaskAttempt,
    EventHandler<TaskAttemptEvent> {

    static final Counters EMPTY_COUNTERS = new Counters();
    private static final Log LOG = LogFactory.getLog(TaskAttemptImpl.class);
    private static final long MEMORY_SPLITS_RESOLUTION = 1024; //TODO Make configurable?
    private final static RecordFactory recordFactory = RecordFactoryProvider.getRecordFactory(null);

    protected final JobConf conf;
    protected final Path jobFile;
    protected final int partition;
    protected EventHandler eventHandler;
    private final TaskAttemptId attemptId;
    private final Clock clock;
    private final org.apache.hadoop.mapred.JobID oldJobId;
    private final TaskAttemptListener taskAttemptListener;
    private final Resource resourceCapability;
    protected Set<String> dataLocalHosts;
    protected Set<String> dataLocalRacks;
    private final List<String> diagnostics = new ArrayList<String>();
    private final Lock readLock;
    private final Lock writeLock;
    private final AppContext appContext;
    private Credentials credentials;
    private Token<JobTokenIdentifier> jobToken;
    private static AtomicBoolean initialClasspathFlag = new AtomicBoolean();
    private static String initialClasspath = null;
    private static String initialAppClasspath = null;
    private static Object commonContainerSpecLock = new Object();
    private static ContainerLaunchContext commonContainerSpec = null;
    private static final Object classpathLock = new Object();
    private long launchTime;
    private long finishTime;
    private WrappedProgressSplitsBlock progressSplitBlock;
    private int shufflePort = -1;
    private String trackerName;
    private int httpPort;
    private Locality locality;
    private Avataar avataar;


private static final CleanupContainerTransition CLEANUP_CONTAINER_TRANSITION =
new CleanupContainerTransition();

private static final DiagnosticInformationUpdater
DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION
= new DiagnosticInformationUpdater();

private static final StateMachineFactory
<TaskAttemptImpl, TaskAttemptStateInternal, TaskAttemptEventType, TaskAttemptEvent>
stateMachineFactory
= new StateMachineFactory
(TaskAttemptStateInternal.NEW)

// Transitions from the NEW state.
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.UNASSIGNED,
    TaskAttemptEventType.TA_SCHEDULE, new RequestContainerTransition(false))
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.UNASSIGNED,
    TaskAttemptEventType.TA_RESCHEDULE, new RequestContainerTransition(true))
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.NEW,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)

// Transitions from the UNASSIGNED state.
.addTransition(TaskAttemptStateInternal.NEW, TaskAttemptStateInternal.NEW,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Transitions from the ASSIGNED state.
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.RUNNING, TaskAttemptEventType.TA_CONTAINER_LAUNCHED, new LaunchedContainerTransition())
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.ASSIGNED, TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE, DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.FAILED, TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED, new DeallocateContainerTransition(TaskAttemptStateInternal.FAILED, false))
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_CONTAINER_COMPLETED, CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_KILL, CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.ASSIGNED, TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_FAILMSG, CLEANUP_CONTAINER_TRANSITION)

// Transitions from the RUNNING state.
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.RUNNING, TaskAttemptEventType.TA_UPDATE, new StatusUpdater())
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.RUNNING, TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE, DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.COMMIT_PENDING, TaskAttemptEventType.TA_COMMIT_PENDING, new CommitPendingTransition())
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_FAILMSG, CLEANUP_CONTAINER_TRANSITION)

// If no commit is required, task directly goes to success
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP, TaskAttemptEventType.TA_DONE, CLEANUP_CONTAINER_TRANSITION)

// If commit is required, task goes through commit pending state.
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.COMMIT_PENDING, TaskAttemptEventType.TA_COMMIT_PENDING, new CommitPendingTransition())

// Failure handling while RUNNING
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_FAILMSG, CLEANUP_CONTAINER_TRANSITION)

// for handling container exit without sending the done or fail msg
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_CONTAINER_COMPLETED, CLEANUP_CONTAINER_TRANSITION)

// Timeout handling while RUNNING
.addTransition(TaskAttemptStateInternal.RUNNING, TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_CONTAINER_COMPLETED, CLEANUP_CONTAINER_TRANSITION)
TaskAttemptEventType.TA_TIMED_OUT, CLEANUP_CONTAINER_TRANSITION)
// if container killed by AM shutting down
.addTransition(TaskAttemptStateInternal.RUNNING,
               TaskAttemptStateInternal.KILLED,
               TaskAttemptEventType.TA_CONTAINER_CLEANED, new KilledTransition())
// Kill handling
.addTransition(TaskAttemptStateInternal.RUNNING,
               TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP, TaskAttemptEventType.TA_KILL,
               CLEANUP_CONTAINER_TRANSITION)

// Transitions from COMMIT_PENDING state
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.COMMIT_PENDING, TaskAttemptEventType.TA_UPDATE,
               new StatusUpdater())
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
               DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
               TaskAttemptEventType.TA_DONE, CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.KILLContainers_CLEANUP, TaskAttemptEventType.TA_KILL,
               CLEANUP_CONTAINER_TRANSITION)
// if container killed by AM shutting down
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.KILLED,
               TaskAttemptEventType.TA_CONTAINER_CLEANED, new KilledTransition())
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
               TaskAttemptEventType.TA_FAILMSG, CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
               TaskAttemptEventType.TA_CONTAINER_COMPLETED,
               CLEANUP_CONTAINER_TRANSITION)
.addTransition(TaskAttemptStateInternal.COMMIT_PENDING,
               TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
               TaskAttemptEventType.TA_TIMED_OUT, CLEANUP_CONTAINER_TRANSITION)

// Transitions from SUCCESS_CONTAINER_CLEANUP state
// kill and cleanup the container
.addTransition(TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
               TaskAttemptStateInternal.SUCCEEDED, TaskAttemptEventType.TA_CONTAINER_CLEANED,
               new SucceededTransition())
.addTransition(
               TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
               TaskAttemptStateInternal.SUCCEEDED, TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
```
// Ignore-able events
.diag.addTransition(TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
                    TaskAttemptStateInternal.SUCCESS_CONTAINER_CLEANUP,
                    EnumSet.of(TaskAttemptEventType.TA_KILL,
                               TaskAttemptEventType.TA_FAILMSG,
                               TaskAttemptEventType.TA_TIMED_OUT,
                               TaskAttemptEventType.TA_CONTAINER_COMPLETED))

// Transitions from FAIL_CONTAINER_CLEANUP state.
.diag.addTransition(TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
                    TaskAttemptStateInternal.FAILED_TASK_CLEANUP,
                    TaskAttemptEventType.TA_CONTAINER_CLEANED, new TaskCleanupTransition())
.diag.addTransition(TaskAttemptStateInternal.FAIL_CONTAINER_CLEANUP,
                    TaskAttemptStateInternal.FAILED_CONTAINER_CLEANUP,
                    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
                    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.diag.addTransition(TaskAttemptStateInternal.FAILED_CONTAINER_CLEANUP,
                    TaskAttemptStateInternal.FAILED_CONTAINER_CLEANUP,
                    EnumSet.of(TaskAttemptEventType.TA_KILL,
                               TaskAttemptEventType.TA_CONTAINER_COMPLETED,
                               TaskAttemptEventType.TA_UPDATE,
                               TaskAttemptEventType.TA_COMMIT_PENDING,
                               // Container launch events can arrive late
                               TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
                               TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
                               TaskAttemptEventType.TA_DONE,
                               TaskAttemptEventType.TA_FAILMSG,
                               TaskAttemptEventType.TA_TIMED_OUT))

// Transitions from KILL_CONTAINER_CLEANUP
.diag.addTransition(TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
                    TaskAttemptStateInternal.KILLED_TASK_CLEANUP,
                    TaskAttemptEventType.TA_CONTAINER_CLEANED, new TaskCleanupTransition())
.diag.addTransition(TaskAttemptStateInternal.KILL_CONTAINER_CLEANUP,
                    TaskAttemptStateInternal.KILLED_CONTAINER_CLEANUP,
                    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
                    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.diag.addTransition(
                     TaskAttemptStateInternal.KILLED_CONTAINER_CLEANUP,
                     TaskAttemptStateInternal.KILLED_CONTAINER_CLEANUP,
                     EnumSet.of(TaskAttemptEventType.TA_KILL,
                                TaskAttemptEventType.TA_CONTAINER_COMPLETED,
                                TaskAttemptEventType.TA_UPDATE,
                                TaskAttemptEventType.TA_COMMIT_PENDING,
                                TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
```

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TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
TaskAttemptEventType.TA_DONE,
TaskAttemptEventType.TA_FAILMSG,
TaskAttemptEventType.TA_TIMED_OUT))

// Transitions from FAIL_TASK_CLEANUP
// run the task cleanup
.addTransition(TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptStateInternal.FAILED, TaskAttemptEventType.TA_CLEANUP_DONE,
    new FailedTransition())
.addTransition(TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.addTransition(TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    TaskAttemptStateInternal.FAIL_TASK_CLEANUP,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
        TaskAttemptEventType.TA_CONTAINER_COMPLETED,
        TaskAttemptEventType.TA_UPDATE,
        TaskAttemptEventType.TA_COMMIT_PENDING,
        TaskAttemptEventType.TA_DONE,
        TaskAttemptEventType.TA_FAILMSG,
        TaskAttemptEventType.TA_CONTAINER_CLEANED,
        // Container launch events can arrive late
        TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
        TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED))

// Transitions from KILL_TASK_CLEANUP
.addTransition(TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptStateInternal.KILLED, TaskAttemptEventType.TA_CLEANUP_DONE,
    new KilledTransition())
.addTransition(TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
    DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events
.addTransition(TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    TaskAttemptStateInternal.KILL_TASK_CLEANUP,
    EnumSet.of(TaskAttemptEventType.TA_KILL,
        TaskAttemptEventType.TA_CONTAINER_COMPLETED,
        TaskAttemptEventType.TA_UPDATE,
        TaskAttemptEventType.TA_COMMIT_PENDING,
        TaskAttemptEventType.TA_DONE,
        TaskAttemptEventType.TA_FAILMSG,
        TaskAttemptEventType.TA_CONTAINER_CLEANED,
        // Container launch events can arrive late
        TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
 TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED))

// Transitions from SUCCEEDED
.addTransition(TaskAttemptStateInternal.SUCCEEDED, //only possible for map attempts
   TaskAttemptStateInternal.FAILED,
   TaskAttemptEventType.TA_TOO_MANY_FETCH_FAILURE,
   new TooManyFetchFailureTransition())
.addTransition(TaskAttemptStateInternal.SUCCEEDED,
   EnumSet.of(TaskAttemptStateInternal.SUCCEEDED, TaskAttemptStateInternal.KILLED),
   TaskAttemptEventType.TA_KILL,
   new KilledAfterSuccessTransition())
.addTransition(
   TaskAttemptStateInternal.SUCCEEDED, TaskAttemptStateInternal.SUCCEEDED,
   TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
   DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events for SUCCEEDED state
.addTransition(TaskAttemptStateInternal.SUCCEEDED,
   TaskAttemptStateInternal.SUCCEEDED,
   EnumSet.of(TaskAttemptEventType.TA_FAILMSG,
      TaskAttemptEventType.TA_CONTAINER_CLEANED,
      TaskAttemptEventType.TA_CONTAINER_COMPLETED))

// Transitions from FAILED state
.addTransition(TaskAttemptStateInternal.FAILED, TaskAttemptStateInternal.FAILED,
   TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
   DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events for FAILED state
.addTransition(TaskAttemptStateInternal.FAILED, TaskAttemptStateInternal.FAILED,
   EnumSet.of(TaskAttemptEventType.TA_KILL,
      TaskAttemptEventType.TA_ASSIGNING,
      TaskAttemptEventType.TA_CONTAINER_COMPLETED,
      TaskAttemptEventType.TA_UPDATE,
      // Container launch events can arrive late
      TaskAttemptEventType.TA_CONTAINER_LAUNCHED,
      TaskAttemptEventType.TA_CONTAINER_LAUNCH_FAILED,
      TaskAttemptEventType.TA_CONTAINER_CLEANED,
      TaskAttemptEventType.TA_COMMIT_PENDING,
      TaskAttemptEventType.TA DONE,
      TaskAttemptEventType.TA_FAILMSG,
      TaskAttemptEventType.TA_TOO_MANY_FETCH_FAILURE))

// Transitions from KILLED state
.addTransition(TaskAttemptStateInternal.KILLED, TaskAttemptStateInternal.KILLED,
   TaskAttemptEventType.TA_DIAGNOSTICS_UPDATE,
   DIAGNOSTIC_INFORMATION_UPDATE_TRANSITION)
// Ignore-able events for KILLED state
.addTransition(TaskAttemptStateInternal.KILLED, TaskAttemptStateInternal.KILLED,
   EnumSet.of(TaskAttemptEventType.TA_KILL,
TaskAttemptEvent.Type.TA_ASSIGNED,
TaskAttemptEvent.Type.TA_CONTAINER_COMPLETED,
TaskAttemptEvent.Type.TA_UPDATE,
// Container launch events can arrive late
TaskAttemptEvent.Type.TA_CONTAINER_LAUNCHED,
TaskAttemptEvent.Type.TA_CONTAINER_LAUNCH_FAILED,
TaskAttemptEvent.Type.TA_CONTAINER_CLEANED,
TaskAttemptEvent.Type.TA_COMMIT_PENDING,
TaskAttemptEvent.Type.TA_DONE,
TaskAttemptEvent.Type.TA_FAILMSG)

// create the topology tables
 .installTopology();

private final StateMachine <TaskAttemptStateInternal, TaskAttemptEvent.Type, TaskAttemptEvent> stateMachine;

@VisibleForTesting
public Container container;
private String nodeRackName;
private WrappedJvmID jvmID;

//this takes good amount of memory ~ 30KB. Instantiate it lazily
//and make it null once task is launched.
private org.apache.hadoop.mapred.Task remoteTask;

//this is the last status reported by the REMOTE running attempt
private TaskAttemptStatus reportedStatus;

private static final String LINE_SEPARATOR = System
 .getProperty("line.separator");

public TaskAttemptImpl(TaskId taskId, int i,
 EventHandler eventHandler,
 TaskAttemptListener taskAttemptListener, Path jobFile, int partition,
 JobConf conf, String[] dataLocalHosts,
 Token<JobTokenIdentifier> jobToken,
 Credentials credentials, Clock clock,
 AppContext appContext) {
 oldJobId = TypeConverter.fromYarn(taskId.getJobId());
 this.conf = conf;
 this.clock = clock;
 attemptId = recordFactory.newRecordInstance(TaskAttemptId.class);
 attemptId.setTaskId(taskId);
 attemptId.setId(i);
 this.taskAttemptListener = taskAttemptListener;
 this.appContext = appContext;
// Initialize reportedStatus
reportedStatus = new TaskAttemptStatus();
initTaskAttemptStatus(reportedStatus);

ReadWriteLock readWriteLock = new ReentrantReadWriteLock();
readLock = readWriteLock.readLock();
writeLock = readWriteLock.writeLock();

this.credentials = credentials;
this.jobToken = jobToken;
this.eventHandler = eventHandler;
this.jobFile = jobFile;
this.partition = partition;

// TODO: create the resource reqt for this Task attempt
this.resourceCapability = recordFactory.newRecordInstance(Resource.class);
this.resourceCapability.setMemory(
    getMemoryRequired(conf, taskId.getTaskType()));
this.resourceCapability.setVirtualCores(
    getCpuRequired(conf, taskId.getTaskType()));

this.dataLocalHosts = resolveHosts(dataLocalHosts);
RackResolver.init(conf);
this.dataLocalRacks = new HashSet<String>();
for (String host : this.dataLocalHosts) {
    this.dataLocalRacks.add(RackResolver.resolve(host).getNetworkLocation());
}

locality = Locality.OFF_SWITCH;
avataar = Avataar.VIRGIN;

// This "this leak" is okay because the retained pointer is in an
// instance variable.
stateMachine = stateMachineFactory.make(this);

private int getMemoryRequired(Configuration conf, TaskType taskType) {
    int memory = 1024;
    if (taskType == TaskType.MAP) {
        memory =
            conf.getInt(MRJobConfig.MAP_MEMORY_MB, 
                MRJobConfig.DEFAULT_MAP_MEMORY_MB);
    } else if (taskType == TaskType.REDUCE) {
        memory =
            conf.getInt(MRJobConfig.REDUCE_MEMORY_MB, 
                MRJobConfig.DEFAULT_REDUCE_MEMORY_MB);
    }
return memory;
}

private int getCpuRequired(Configuration conf, TaskType taskType) {
    int vcores = 1;
    if (taskType == TaskType.MAP) {
        vcores =
        conf.getInt(MRJobConfig.MAP_CPU_VCORES,
                   MRJobConfig.DEFAULT_MAP_CPU_VCORES);
    } else if (taskType == TaskType.REDUCE) {
        vcores =
        conf.getInt(MRJobConfig.REDUCE_CPU_VCORES,
                   MRJobConfig.DEFAULT_REDUCE_CPU_VCORES);
    }

    return vcores;
}

/**
 * Create a {@link LocalResource} record with all the given parameters.
 */
private static LocalResource createLocalResource(FileSystem fc, Path file,
                                             LocalResourceType type, LocalResourceVisibility visibility)
    throws IOException {
    FileStatus fstat = fc.getFileStatus(file);
    URL resourceURL = ConverterUtils.getYarnUrlFromPath(fc.resolvePath(fstat.getPath()));
    long resourceSize = fstat.getLen();
    long resourceModificationTime = fstat.getModificationTime();

    return LocalResource.newInstance(resourceURL, type, visibility,
                                      resourceSize, resourceModificationTime);
}

/**
 * Lock this on initialClasspath so that there is only one fork in the AM for
 * getting the initial class-path. TODO: We already construct
 * a parent CLC and use it for all the containers, so this should go away
 * once the mr-generated-classpath stuff is gone.
 */
private static String getInitialClasspath(Configuration conf) throws IOException {
    synchronized (classpathLock) {
        if (initialClasspathFlag.get()) {
            return initialClasspath;
        }

        Map<String, String> env = new HashMap<String, String>();
        MRApps.setClasspath(env, conf);
    }

    Map<String, String> env = new HashMap<String, String>();
    MRApps.setClasspath(env, conf);
initialClasspath = env.get(Environment.CLASSPATH.name());
initialAppClasspath = env.get(Environment.APP_CLASSPATH.name());
initialClasspathFlag.set(true);
return initialClasspath;
}
}

/**
 * Create the common '{@link ContainerLaunchContext}' for all attempts.
 * @param applicationACLs
 */
private static ContainerLaunchContext createCommonContainerLaunchContext(
    Map<ApplicationAccessType, String> applicationACLs, Configuration conf,
    Token<JobTokenIdentifier> jobToken,
    final org.apache.hadoop.mapred.JobID oldJobId,
    Credentials credentials) {

    // Application resources
    Map<String, LocalResource> localResources =
        new HashMap<String, LocalResource>();

    // Application environment
    Map<String, String> environment = new HashMap<String, String>();

    // Service data
    Map<String, ByteBuffer> serviceData = new HashMap<String, ByteBuffer>();

    // Tokens
    ByteBuffer taskCredentialsBuffer = ByteBuffer.wrap(new byte[0]);
    try {
        FileSystem remoteFS = FileSystem.get(conf);

        // //////////// Set up JobJar to be localized properly on the remote NM.
        String jobJar = conf.get(MRJobConfig.JAR);
        if (jobJar != null) {
            Path remoteJobJar = (new Path(jobJar)).makeQualified(remoteFS
                .getUri(), remoteFS.getWorkingDirectory());
            LocalResource rc = createLocalResource(remoteFS, remoteJobJar,
                LocalResourceType.PATTERN, LocalResourceVisibility.APPLICATION);
            String pattern = conf.getPattern(JobContext.JAR_UNPACK_PATTERN,
                JobConf.UNPACK_JAR_PATTERN_DEFAULT).pattern();
            rc.setPattern(pattern);
            localResources.put(MRJobConfig.JOB_JAR, rc);
            LOG.info("The job-jar file on the remote FS is " +
                remoteJobJar.toUri().toASCIIString());
        } else {
            // Job jar may be null. For e.g, for pipes, the job jar is the hadoop
        }
    } finally {
        try {
            remoteFS.close();
        } finally {
            // close up the job resource stream
        }
    }

    return new ContainerLaunchContext(
        localResources, environment, serviceData,
        applicationACLs, jobToken, oldJobId,
        taskCredentialsBuffer);
// mapreduce jar itself which is already on the classpath.
LOG.info("Job jar is not present. 
+ "Not adding any jar to the list of resources.");
}

// //////////// End of JobJar setup

// //////////// Set up JobConf to be localized properly on the remote NM.
Path path =
  MRApps.getStagingAreaDir(conf, UserGroupInformation
  .getCurrentUser().getShortUserName());
Path remoteJobSubmitDir =
  new Path(path, oldJobId.toString());
Path remoteJobConfPath =
  new Path(remoteJobSubmitDir, MRJobConfig.JOB_CONF_FILE);
localResources.put(
  MRJobConfig.JOB_CONF_FILE,
  createLocalResource(remoteFS, remoteJobConfPath,
    LocalResourceType.FILE, LocalResourceVisibility.APPLICATION));
LOG.info("The job-conf file on the remote FS is 
+ remoteJobConfPath.toUri().toASCIIString());

// //////////// End of JobConf setup

// Setup DistributedCache
MRApps.setupDistributedCache(conf, localResources);

// Setup up task credentials buffer
LOG.info("Adding #" + credentials.numberOfTokens()
+ " tokens and #" + credentials.numberOfSecretKeys()
+ " secret keys for NM use for launching container");
Credentials taskCredentials = new Credentials(credentials);

// LocalStorageToken is needed irrespective of whether security is enabled
// or not.
TokenCache.setJobToken(jobToken, taskCredentials);

DataOutputBuffer containerTokens_dob = new DataOutputBuffer();
LOG.info("Size of containertokens_dob is 
+ taskCredentials.numberOfTokens());
taskCredentials.writeTokenStorageToStream(containerTokens_dob);
taskCredentialsBuffer =
  ByteBuffer.wrap(containerTokens_dob.getData(), 0,
  containerTokens_dob.getLength());

// Add shuffle secret key
// The secret key is converted to a JobToken to preserve backwards
// compatibility with an older ShuffleHandler running on an NM.
LOG.info("Putting shuffle token in serviceData");
byte[] shuffleSecret = TokenCache.getShuffleSecretKey(credentials);
if (shuffleSecret == null) {
    LOG.warn("Cannot locate shuffle secret in credentials.
            + " Using job token as shuffle secret.");
    shuffleSecret = jobToken.getPassword();
}
Token<JobTokenIdentifier> shuffleToken = new Token<JobTokenIdentifier>(
    jobToken.getIdentifier(), shuffleSecret, jobToken.getKind(),
    jobToken.getService());
serviceData.put(ShuffleHandler.MAPREDUCE_SHUFFLE_SERVICEID,
    ShuffleHandler.serializeServiceData(shuffleToken));

Apps.addToEnvironment(
    environment,
    Environment.CLASSPATH.name(),
    getInitialClasspath(conf));

if (initialAppClasspath != null) {
    Apps.addToEnvironment(
        environment,
        Environment.APP_CLASSPATH.name(),
        initialAppClasspath);
}
} catch (IOException e) {
    throw new YarnRuntimeException(e);
}

// Shell
environment.put(
    Environment.SHELL.name(),
    conf.get(
        MRJobConfig.MAPRED_ADMIN_USER_SHELL,
        MRJobConfig.DEFAULT_SHELL)
    );

// Add pwd to LD_LIBRARY_PATH, add this before adding anything else
Apps.addToEnvironment(
    environment,
    Environment.LD_LIBRARY_PATH.name(),
    Environment.PWD.$());

// Add the env variables passed by the admin
Apps.setEnvFromInputString(
    environment,
    conf.get(
        MRJobConfig.MAPRED_ADMIN_USER_ENV,
        MRJobConfig.DEFAULT_MAPRED_ADMIN_USER_ENV)
    );
// Construct the actual Container
// The null fields are per-container and will be constructed for each
// container separately.
ContainerLaunchContext container =
    ContainerLaunchContext.newInstance(localResources, environment, null,
                                           serviceData, taskCredentialsBuffer, applicationACLs);

    return container;
}

static ContainerLaunchContext createContainerLaunchContext(
    Map<ApplicationAccessType, String> applicationACLs,
    Configuration conf, Token<JobTokenIdentifier> jobToken, Task remoteTask,
    final org.apache.hadoop.mapred.JobID oldJobId,
    WrappedJvmID jvmID,
    TaskAttemptListener taskAttemptListener,
    Credentials credentials) {

synchronized (commonContainerSpecLock) {
    if (commonContainerSpec == null) {
        commonContainerSpec = createCommonContainerLaunchContext(
            applicationACLs, conf, jobToken, oldJobId, credentials);
    }
}

// Fill in the fields needed per-container that are missing in the common
// spec.

    // Setup environment by cloning from common env.
    Map<String, String> env = commonContainerSpec.getEnvironment();
    Map<String, String> myEnv = new HashMap<String, String>(env.size());
    myEnv.putAll(env);
    MapReduceChildJVM.setVMEnv(myEnv, remoteTask);

    // Set up the launch command
    List<String> commands = MapReduceChildJVM.getVMCommand(
        taskAttemptListener.getAddress(), remoteTask, jvmID);

    // Duplicate the ByteBuffers for access by multiple containers.
    Map<String, ByteBuffer> myServiceData = new HashMap<String, ByteBuffer>();
    for (Entry<String, ByteBuffer> entry : commonContainerSpec
        .getServiceData().entrySet()) {
        myServiceData.put(entry.getKey(), entry.getValue().duplicate());
    }

    // Construct the actual Container
    ContainerLaunchContext container = ContainerLaunchContext.newInstance(
        commonContainerSpec.getLocalResources(), myEnv, commands,}
myServiceData, commonContainerSpec.getTokens().duplicate(), applicationACLs);

return container;
}

@Override
public ContainerId getAssignedContainerID() {
  readLock.lock();
  try {
    return container == null ? null : container.getId();
  } finally {
    readLock.unlock();
  }
}

@Override
public String getAssignedContainerMgrAddress() {
  readLock.lock();
  try {
    return container == null ? null : StringInterner.weakIntern(container
      .getNodeId().toString());
  } finally {
    readLock.unlock();
  }
}

@Override
public long getLaunchTime() {
  readLock.lock();
  try {
    return launchTime;
  } finally {
    readLock.unlock();
  }
}

@Override
public long getFinishTime() {
  readLock.lock();
  try {
    return finishTime;
  } finally {
    readLock.unlock();
  }
}
public long getShuffleFinishTime() {
    readLock.lock();
    try {
        return this.reportedStatus.shuffleFinishTime;
    } finally {
        readLock.unlock();
    }
}

@Override
public long getSortFinishTime() {
    readLock.lock();
    try {
        return this.reportedStatus.sortFinishTime;
    } finally {
        readLock.unlock();
    }
}

@Override
public int getShufflePort() {
    readLock.lock();
    try {
        return shufflePort;
    } finally {
        readLock.unlock();
    }
}

@Override
public NodeId getNodeId() {
    readLock.lock();
    try {
        return container == null ? null : container.getNodeId();
    } finally {
        readLock.unlock();
    }
}

/** If container Assigned then return the node’s address, otherwise null. */
@Override
public String getNodeHttpAddress() {
    readLock.lock();
    try {
        return container == null ? null : container.getNodeHttpAddress();
    } finally {
        readLock.unlock();
    }
}
/**
 * If container Assigned then return the node's rackname, otherwise null.
 */

@override
public String getNodeRackName() {
    this.readLock.lock();
    try {
        return this.nodeRackName;
    } finally {
        this.readLock.unlock();
    }
}

protected abstract org.apache.hadoop.mapred.Task createRemoteTask();

@Override
public TaskAttemptId getID() {
    return attemptId;
}

@Override
public boolean isFinished() {
    readLock.lock();
    try {
        // TODO: Use stateMachine level method?
        return (getInternalState() == TaskAttemptStateInternal.SUCCEEDED ||
                getInternalState() == TaskAttemptStateInternal.FAILED ||
                getInternalState() == TaskAttemptStateInternal.KILLED);
    } finally {
        readLock.unlock();
    }
}

@Override
public TaskAttemptReport getReport() {
    TaskAttemptReport result = recordFactory.newRecordInstance(TaskAttemptReport.class);
    readLock.lock();
    try {
        result.setTaskAttemptId(attemptId);
        //take the LOCAL state of attempt
        //DO NOT take from reportedStatus
        result.setTaskAttemptState(getState());
        result.setProgress(reportedStatus.progress);
        result.setStartTime(launchTime);
    }
}
result.setFinishTime(finishTime);
result.setShuffleFinishTime(this.reportedStatus.shuffleFinishTime);
result.setDiagnosticInfo(StringUtils.join(LINE_SEPARATOR, getDiagnostics()));
result.setPhase(reportedStatus.phase);
result.setStateString(reportedStatus.stateString);
result.setCounters(TypeConverter.toYarn(getCounters()));
result.setNodeManagerHost(trackerName);
result.setNodeManagerHttpPort(httpPort);
if (this.container != null) {
    result.setNodeManagerPort(this.container.getNodeId().getPort());
} return result;
} finally {
    readLock.unlock();
}

@Override
public List<String> getDiagnostics() {
    List<String> result = new ArrayList<String>();
    readLock.lock();
    try {
        result.addAll(diagnostics);
        return result;
    } finally {
        readLock.unlock();
    }
}

@Override
public Counters getCounters() {
    readLock.lock();
    try {
        Counters counters = reportedStatus.counters;
        if (counters == null) {
            counters = EMPTY_COUNTERS;
        }
        return counters;
    } finally {
        readLock.unlock();
    }
}

@Override
public float getProgress() {
    readLock.lock();
    try {
return reportedStatus.progress;
} finally {
    readLock.unlock();
}

@Override
public Phase getPhase() {
    readLock.lock();
    try {
        return reportedStatus.phase;
    } finally {
        readLock.unlock();
    }
}

@SuppressWarnings("unchecked")
@Override
public void handle(TaskAttemptEvent event) {
    if (LOG.isDebugEnabled()) {
        LOG.debug("Processing " + event.getTaskAttemptID() + " of type " + event.getType());
    }
    writeLock.lock();
    try {
        final TaskAttemptStateInternal oldState = getInternalState();
        try {
            stateMachine.doTransition(event.getType(), event);
        } catch (InvalidStateTransitonException e) {
            LOG.error("Can't handle this event at current state for "+ this.attemptId, e);
            eventHandler.handle(new JobDiagnosticsUpdateEvent(  
                this.attemptId.getTaskId().getJobId(), "Invalid event " + event.getType() +  
                " on TaskAttempt " + this.attemptId));
            eventHandler.handle(new JobEvent(this.attemptId.getTaskId().getJobId(),  
                JobEventType.INTERNAL_ERROR));
        }
        if (oldState != getInternalState()) {

    }
LOG.info(attemptId + " TaskAttempt Transitioned from " + oldState + " to " + getInternalState());

} finally {
    writeLock.unlock();
}
}

@VisibleForTesting
public TaskAttemptStateInternal getInternalState() {
    readLock.lock();
    try {
        return stateMachine.getCurrentState();
    } finally {
        readLock.unlock();
    }
}

public Locality getLocality() {
    return locality;
}

public void setLocality(Locality locality) {
    this.locality = locality;
}

public Avataar getAvataar()
{
    return avataar;
}

public void setAvataar(Avataar avataar) {
    this.avataar = avataar;
}

@SuppressWarnings("unchecked")
public TaskAttemptStateInternal recover(TaskAttemptInfo taInfo,
    OutputCommitter committer, boolean recoverOutput) {
    ContainerId containerId = taInfo.getContainerId();
    NodeId containerNodeId = ConverterUtils.toNodeId(taInfo.getHostname() + ":" + taInfo.getPort());
    String nodeHttpAddress = StringInterner.weakIntern(taInfo.getHostname() + ":\" + taInfo.getHttpPort());
    // Resource/Priority/Tokens are only needed while launching the container on
    // an NM, these are already completed tasks, so setting them to null
    container =
        Container.newInstance(containerId, containerNodeId,
nodeHttpAddress, null, null, null);
computeRackAndLocality();
launchTime = taInfo.getStartTime();
finishTime = (taInfo.getFinishTime() != -1) ?
    taInfo.getFinishTime() : clock.getTime();
shufflePort = taInfo.getShufflePort();
trackerName = taInfo.getHostname();
httpPort = taInfo.getHttpPort();
sendLaunchedEvents();

reportedStatus.id = attemptId;
reportedStatus.progress = 1.0f;
reportedStatus.counters = taInfo.getCounters();
reportedStatus.stateString = taInfo.getState();
reportedStatus.phase = Phase.CLEANUP;
reportedStatus.mapFinishTime = taInfo.getMapFinishTime();
reportedStatus.shuffleFinishTime = taInfo.getShuffleFinishTime();
reportedStatus.sortFinishTime = taInfo.getSortFinishTime();
addDiagnosticInfo(taInfo.getError());

boolean needToClean = false;
String recoveredState = taInfo.getTaskStatus();
if (recoverOutput
    && TaskAttemptState.SUCCEEDED.toString().equals(recoveredState)) {
    TaskAttemptContext tac = new TaskAttemptContextImpl(conf,
        TypeConverter.fromYarn(attemptId));
    try {
        committer.recoverTask(tac);
        LOG.info("Recovered output from task attempt " + attemptId);
    } catch (Exception e) {
        LOG.error("Unable to recover task attempt " + attemptId, e);
        LOG.info("Task attempt " + attemptId + " will be recovered as KILLED");
        recoveredState = TaskAttemptState.KILLED.toString();
        needToClean = true;
    }
}

TaskAttemptStateInternal attemptState;
if (TaskAttemptState.SUCCEEDED.toString().equals(recoveredState)) {
    attemptState = TaskAttemptStateInternal.SUCCEEDED;
    reportedStatus.taskState = TaskAttemptState.SUCCEEDED;
    eventHandler.handle(createJobCounterUpdateEventTASucceeded(this));
    logAttemptFinishedEvent(attemptState);
} else if (TaskAttemptState.FAILED.toString().equals(recoveredState)) {
    attemptState = TaskAttemptStateInternal.FAILED;
    reportedStatus.taskState = TaskAttemptState.FAILED;
    eventHandler.handle(createJobCounterUpdateEventTAFailed(this, false));
    TaskAttemptUnsuccessfulCompletionEvent tauce =
createTaskAttemptUnsuccessfulCompletionEvent(this,
    TaskAttemptStateInternal.FAILED);
eventHandler.handle(
    new JobHistoryEvent(attemptId.getTaskId().getJobId(), tauce));
} else {
    if (!TaskAttemptState.KILLED.toString().equals(recoveredState)) { 
        if (String.valueOf(recoveredState).isEmpty()) {
            LOG.info("TaskAttempt" + attemptId
                + " had not completed, recovering as KILLED");
        } else {
            LOG.warn("TaskAttempt " + attemptId + " found in unexpected state 
                + recoveredState + ", recovering as KILLED");
        }
        addDiagnosticInfo("Killed during application recovery");
        needToClean = true;
    }
    attemptState = TaskAttemptStateInternal.KILLED;
    reportedStatus.taskState = TaskAttemptState.KILLED;
    eventHandler.handle(createJobCounterUpdateEventTAKilled(this, false));
    TaskAttemptUnsuccessfulCompletionEvent tauce =
    createTaskAttemptUnsuccessfulCompletionEvent(this,
        TaskAttemptStateInternal.KILLED);
    eventHandler.handle(
        new JobHistoryEvent(attemptId.getTaskId().getJobId(), tauce));
}

if (needToClean) {
    TaskAttemptContext tac = new TaskAttemptContextImpl(conf,
        TypeConverter.fromYarn(attemptId));
    try {
        committer.abortTask(tac);
    } catch (Exception e) {
        LOG.warn("Task cleanup failed for attempt "+ attemptId, e);
    }
}

return attemptState;
}

private static TaskAttemptState getExternalState(
    TaskAttemptStateInternal smState) {
    switch (smState) {
    case ASSIGNED:
        return TaskAttemptState.STARTING;
    case UNASSIGNED:
        return TaskAttemptState.COMMIT_PENDING;
    case COMMIT_PENDING:
        return TaskAttemptState.COMMIT_PENDING;
    case FAILED:
return TaskAttemptState.FAILED;
case KILLED:
    return TaskAttemptState.KILLED;
    // All CLEANUP states considered as RUNNING since events have not gone out
    // to the Task yet. May be possible to consider them as a Finished state.
case FAIL_CONTAINER_CLEANUP:
case FAIL_TASK_CLEANUP:
case KILL_CONTAINER_CLEANUP:
case KILL_TASK_CLEANUP:
case SUCCESS_CONTAINER_CLEANUP:
case RUNNING:
    return TaskAttemptState.RUNNING;
case NEW:
    return TaskAttemptState.NEW;
case SUCCEEDED:
    return TaskAttemptState.SUCCEEDED;
default:
    throw new YarnRuntimeException("Attempt to convert invalid 
        + stateMachineTaskAttemptState to externalTaskAttemptState: 
        + smState);
    }
}
}

// always called in write lock
private void setFinishTime() {
   // set the finish time only if launch time is set
   if (launchTime != 0) {
      finishTime = clock.getTime();
   }
}

private void computeRackAndLocality() {
NodeId containerNodeId = container.getNodeId();
nodeRackName = RackResolver.resolve(
    containerNodeId.getHost()).getNetworkLocation();

locality = Locality.OFF_SWITCH;
if (dataLocalHosts.size() > 0) {
    String cHost = resolveHost(container.getNodeId().getHost());
    if (dataLocalHosts.contains(cHost)) {
        locality = Locality.NODE_LOCAL;
    }
}

if (locality == Locality.OFF_SWITCH) {
    if (dataLocalRacks.contains(nodeRackName)) {
        locality = Locality.RACK_LOCAL;
    }
}
private static long computeSlotMillis(TaskAttemptImpl taskAttempt) {
    TaskType taskType = taskAttempt.getID().getTaskId().getTaskType();
    int slotMemoryReq =
        taskAttempt.getMemoryRequired(taskAttempt.conf, taskType);

    int minSlotMemSize = taskAttempt.conf.getInt(
        YarnConfiguration.RM_SCHEDULER_MINIMUM_ALLOCATION_MB,
        YarnConfiguration.DEFAULT_RM_SCHEDULER_MINIMUM_ALLOCATION_MB);

    int simSlotsRequired =
        minSlotMemSize == 0 ? 0 : (int) Math.ceil((float) slotMemoryReq / minSlotMemSize);

    long slotMillisIncrement =
        simSlotsRequired
        * (taskAttempt.getFinishTime() - taskAttempt.getLaunchTime());
    return slotMillisIncrement;
}

private static JobCounterUpdateEvent createJobCounterUpdateEventTASucceeded(
    TaskAttemptImpl taskAttempt) {
    long slotMillis = computeSlotMillis(taskAttempt);
    TaskId taskId = taskAttempt.attemptId.getTaskId();
    JobCounterUpdateEvent jce = new JobCounterUpdateEvent(taskId.getJobId());
    jce.addCounterUpdate(
        taskId.getTaskType() == TaskType.MAP ?
            JobCounter.SLOTS_MILLIS_MAPS : JobCounter.SLOTS_MILLIS_REDUCES,
        slotMillis);
    return jce;
}

private static JobCounterUpdateEvent createJobCounterUpdateEventTAFailed(
    TaskAttemptImpl taskAttempt, boolean taskAlreadyCompleted) {
    TaskType taskType = taskAttempt.getID().getTaskId().getTaskType();
    JobCounterUpdateEvent jce = new JobCounterUpdateEvent(taskAttempt.getID().getTaskId().getJobId());
    long slotMillisIncrement = computeSlotMillis(taskAttempt);

    if (taskType == TaskType.MAP) {
        jce.addCounterUpdate(JobCounter.NUM_FAILED_MAPS, 1);
        if (!taskAlreadyCompleted) {
            // dont double count the elapsed time
            jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_MAPS, slotMillisIncrement);
        }
    } else {
        jce.addCounterUpdate(JobCounter.NUM_FAILED_REDUCES, 1);
    }
}
if (!taskAlreadyCompleted) {
    // dont double count the elapsed time
    jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_REDUCES, slotMillisIncrement);
}
}
return jce;

private static JobCounterUpdateEvent createJobCounterUpdateEventTAKilled(
    TaskAttemptImpl taskAttempt, boolean taskAlreadyCompleted) {
    TaskType taskType = taskAttempt.getID().getTaskId().getTaskType();
    JobCounterUpdateEvent jce = new JobCounterUpdateEvent(taskAttempt.getID().getTaskId().getJobId());

    long slotMillisIncrement = computeSlotMillis(taskAttempt);

    if (taskType == TaskType.MAP) {
        jce.addCounterUpdate(JobCounter.NUM_KILLED_MAPS, 1);
        if (!taskAlreadyCompleted) {
            // dont double count the elapsed time
            jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_MAPS, slotMillisIncrement);
        }
    } else {
        jce.addCounterUpdate(JobCounter.NUM_KILLED_REDUCES, 1);
        if (!taskAlreadyCompleted) {
            // dont double count the elapsed time
            jce.addCounterUpdate(JobCounter.SLOTS_MILLIS_REDUCES, slotMillisIncrement);
        }
    }
    return jce;
}

private static TaskAttemptUnsuccessfulCompletionEvent
createTaskAttemptUnsuccessfulCompletionEvent(TaskAttemptImpl taskAttempt,
    TaskAttemptStateInternal attemptState) {
    TaskAttemptUnsuccessfulCompletionEvent tauce =
        new TaskAttemptUnsuccessfulCompletionEvent(
            TypeConverter.fromYarn(taskAttempt.attemptId),
            TypeConverter.fromYarn(taskAttempt.attemptId.getTaskId().getTaskType()),
            attemptState.toString(),
            taskAttempt.finishTime,
            taskAttempt.container == null ? "UNKNOWN" :
                taskAttempt.container.getNodeId().getHost(),
            taskAttempt.container == null ? -1 :
                taskAttempt.container.getNodeId().getPort(),
            taskAttempt.nodeRackName == null ? "UNKNOWN" :
                taskAttempt.nodeRackName,
            StringUtils.join(}
LINE_SEPARATOR, taskAttempt.getDiagnostics(),
taskAttempt.getCounters(), taskAttempt
.getProgressSplitBlock().burst());
return tauce;
}

@SuppressWarnings("unchecked")
private void sendLaunchedEvents() {
JobCounterUpdateEvent jce = new JobCounterUpdateEvent(attemptId.getTaskId()
 .getJobId());
jce.addCounterUpdate(attemptId.getTaskId().getTaskType() == TaskType.MAP?
  JobCounter.TOTAL_LAUNCHED_MAPS : JobCounter.TOTAL_LAUNCHED_REDUCES, 1);
esthandler.handle(jce);

LOG.info("TaskAttempt: " + attemptId
  + " using containerId: " + container.getId() + " on NM: "
  + StringInterner.weakIntern(container.getNodeId().toString()) + ");
TaskAttemptStartedEvent tase =
new TaskAttemptStartedEvent(TypeConverter.fromYarn(attemptId),
  TypeConverter.fromYarn(attemptId.getTaskId().getTaskType()),
  launchTime, trackerName, httpPort, shufflePort, container.getId(),
  locality.toString(), avataar.toString());
esthandler.handle(
  new JobHistoryEvent(attemptId.getTaskId().getJobId(), tase));
}

private WrappedProgressSplitsBlock getProgressSplitBlock() {
readLock.lock();
try {
if (progressSplitBlock == null) {
  progressSplitBlock = new WrappedProgressSplitsBlock(conf.getInt(
    MRJobConfig.MR_AM_NUM_PROGRESS_SPLITS,
    MRJobConfig.DEFAULT_MR_AM_NUM_PROGRESS_SPLITS));
}
return progressSplitBlock;
} finally {
  readLock.unlock();
}
}

private void updateProgressSplits() {
  double newProgress = reportedStatus.progress;
  newProgress = Math.max(Math.min(newProgress, 1.0D), 0.0D);
 _counters = reportedStatus.counters;
  if (counters == null)
    return;

  WrappedProgressSplitsBlock splitsBlock = getProgressSplitBlock();
if (splitsBlock != null) {
    long now = clock.getTime();
    long start = getLaunchTime(); // TODO Ensure not 0

    if (start != 0 && now - start <= Integer.MAX_VALUE) {
        splitsBlock.getProgressWallclockTime().extend(newProgress,
            (int) (now - start));
    }
}

Counter cpuCounter = counters.findCounter(TaskCounter.CPU_MILLISECONDS);
if (cpuCounter != null && cpuCounter.getValue() <= Integer.MAX_VALUE) {
    splitsBlock.getProgressCPUTime().extend(newProgress,
        (int) cpuCounter.getValue()); // long to int? TODO: FIX. Same below
}

Counter virtualBytes = counters
    .findCounter(TaskCounter.VIRTUAL_MEMORY_BYTES);
if (virtualBytes != null) {
    splitsBlock.getProgressVirtualMemoryKbytes().extend(newProgress,
        (int) (virtualBytes.getValue() / (MEMORY_SPLITS_RESOLUTION)));
}

Counter physicalBytes = counters
    .findCounter(TaskCounter.PHYSICAL_MEMORY_BYTES);
if (physicalBytes != null) {
    splitsBlock.getProgressPhysicalMemoryKbytes().extend(newProgress,
        (int) (physicalBytes.getValue() / (MEMORY_SPLITS_RESOLUTION)));
}
}

static class RequestContainerTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    private final boolean rescheduled;
    public RequestContainerTransition(boolean rescheduled) {
        this.rescheduled = rescheduled;
    }

    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        // Tell any speculator that we’re requesting a container
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent(taskAttempt.getID().getTaskId(), +1));

        // request for container
        if (rescheduled) {
            taskAttempt.eventHandler.handle(
                ContainerRequestEvent.createContainerRequestEventForFailedContainer(}
taskAttempt.attemptId,
    taskAttempt.resourceCapability));
} else {
    taskAttempt.eventHandler.handle(new ContainerRequestEvent(
        taskAttempt.attemptId, taskAttempt.resourceCapability,
        taskAttempt.dataLocalHosts.toArray(
            new String[taskAttempt.dataLocalHosts.size()]),
        taskAttempt.dataLocalRacks.toArray(
            new String[taskAttempt.dataLocalRacks.size()])));
}
}
}

protected Set<String> resolveHosts(String[] src) {
    Set<String> result = new HashSet<String>();
    if (src != null) {
        for (int i = 0; i < src.length; i++) {
            if (src[i] == null) {
                continue;
            } else if (isIP(src[i])) {
                result.add(resolveHost(src[i]));
            } else {
                result.add(src[i]);
            }
        }
    }
    return result;
}

protected String resolveHost(String src) {
    String result = src; // Fallback in case of failure.
    try {
        InetAddress addr = InetAddress.getByName(src);
        result = addr.getHostName();
    } catch (UnknownHostException e) {
        LOG.warn("Failed to resolve address: " + src
               + ", Continuing to use the same.");
    }
    return result;
}

private static final Pattern ipPattern = // Pattern for matching ip
    Pattern.compile("[\d{1,3}]\d{1,3}\d{1,3}\d{1,3}");

protected boolean isIP(String src) {
    return ipPattern.matcher(src).matches();
}
private static class ContainerAssignedTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
@.SuppressWarnings({ "unchecked" })
@Override
public void transition(final TaskAttemptImpl taskAttempt,
    TaskAttemptEvent event) {
    final TaskAttemptContainerAssignedEvent cEvent =
        (TaskAttemptContainerAssignedEvent) event;
    Container container = cEvent.getContainer();
    taskAttempt.container = container;
    // this is a _real_ Task (classic Hadoop mapred flavor):
    taskAttempt.remoteTask = taskAttempt.createRemoteTask();
    taskAttempt.jvmID =
        new WrappedJvmID(taskAttempt.remoteTask.getTaskID().getJobID(),
            taskAttempt.remoteTask.isMapTask(), taskAttempt.container.getId()
            .getId());
    taskAttempt.taskAttemptListener.registerPendingTask(
        taskAttempt.remoteTask, taskAttempt.jvmID);
    taskAttempt.computeRackAndLocality();

    // launch the container
    // create the container object to be launched for a given Task attempt
    ContainerLaunchContext launchContext = createContainerLaunchContext(        cEvent.getApplicationACLs(), taskAttempt.conf, taskAttempt.jobToken,
        taskAttempt.remoteTask, taskAttempt.oldJobId, taskAttempt.jvmID,
        taskAttempt.taskAttemptListener, taskAttempt.credentials);
    taskAttempt.eventHandler
        .handle(new ContainerRemoteLaunchEvent(taskAttempt.attemptId,
            launchContext, container, taskAttempt.remoteTask));

    // send event to speculator that our container needs are satisfied
    taskAttempt.eventHandler.handle
        (new SpeculatorEvent(taskAttempt.getID().getTaskId(), -1));
}
}

private static class DeallocateContainerTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
private final TaskAttemptStateInternal finalState;
private final boolean withdrawsContainerRequest;
DeallocateContainerTransition
    (TaskAttemptStateInternal finalState, boolean withdrawsContainerRequest) {
        this.finalState = finalState;
        this.withdrawsContainerRequest = withdrawsContainerRequest;
    }
@SuppressWarnings("unchecked")
@Override
public void transition(TaskAttemptImpl taskAttempt, 
    TaskAttemptEvent event) { 
    // set the finish time 
    taskAttempt.setFinishTime(); 
    // send the deallocate event to ContainerAllocator 
    taskAttempt.eventHandler.handle(
        new ContainerAllocatorEvent(taskAttempt.attemptId, 
            ContainerAllocator.EventType.CONTAINER_DEALLOCATE)); 

    // send event to speculator that we withdraw our container needs, if 
    // we’re transitioning out of UNASSIGNED

    if (withdrawsContainerRequest) { 
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent(taskAttempt.getID().getTaskId(), -1)); 
    } 

    switch(finalState) { 
        case FAILED: 
            taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
                taskAttempt.attemptId, 
                TaskEventType.T_ATTEMPT_FAILED)); 
            break; 
        case KILLED: 
            taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
                taskAttempt.attemptId, 
                TaskEventType.T_ATTEMPT_KILLED)); 
            break; 
        default: 
            LOG.error("Task final state is not FAILED or KILLED: " + finalState); 
            break; 
    } 

    if (taskAttempt.getLaunchTime() != 0) { 
        TaskAttemptUnsuccessfulCompletionEvent tauce = 
            createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt, 
                finalState); 

        if(finalState == TaskAttemptStateInternal.FAILED) { 
            taskAttempt.eventHandler
                .handle(createJobCounterUpdateEventTAFailed(taskAttempt, false)); 
        } else if(finalState == TaskAttemptStateInternal.KILLED) { 
            taskAttempt.eventHandler
                .handle(createJobCounterUpdateEventTAKilled(taskAttempt, false)); 
        } 

        taskAttempt.eventHandler.handle(new JobHistoryEvent(
            taskAttempt.attemptId.getTaskId().getJobId(), tauce)); 
    } else { 
        LOG.debug("Not generating HistoryFinish event since start event not " + 
           "generated for taskAttempt: " + taskAttempt.getID()); 
    } 
}
private static class LaunchedContainerTransition implements
SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent evnt) {

        TaskAttemptContainerLaunchedEvent event =
            (TaskAttemptContainerLaunchedEvent) evnt;

        // set the launch time
        taskAttempt.launchTime = taskAttempt.clock.getTime();
        taskAttempt.shufflePort = event.getShufflePort();

        // register it to TaskAttemptListener so that it can start monitoring it.
        taskAttempt.taskAttemptListener
            .registerLaunchedTask(taskAttempt.attemptId, taskAttempt.jvmID);
        // TODO Resolve to host / IP in case of a local address.
        InetSocketAddress nodeHttpInetAddr = // TODO: Costly to create sock-addr?
            NetUtils.createSocketAddr(taskAttempt.container.getNodeHttpAddress());
        taskAttempt.trackerName = nodeHttpInetAddr.getHostName();
        taskAttempt.httpPort = nodeHttpInetAddr.getPort();
        taskAttempt.sendLaunchedEvents();
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent
                (taskAttempt.attemptId, true, taskAttempt.clock.getTime()));

        // make remoteTask reference as null as it is no more needed
        // and free up the memory
        taskAttempt.remoteTask = null;

        // tell the Task that attempt has started
        taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
            taskAttempt.attemptId,
            TaskEventType.T_ATTEMPT_LAUNCHED));
    }
}

private static class CommitPendingTransition implements
SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
            taskAttempt.attemptId,
            TaskEventType.T_ATTEMPT_COMMIT_PENDING));
    }
}
private static class TaskCleanupTransition implements 
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> { 
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt, 
        TaskAttemptEvent event) { 
        TaskAttemptContext taskContext = 
            new TaskAttemptContextImpl(taskAttempt.conf, 
                TypeConverter.fromYarn(taskAttempt.attemptId));
        taskAttempt.eventHandler.handle(new CommitterTaskAbortEvent( 
            taskAttempt.attemptId, taskContext));
    }
}

private static class SucceededTransition implements 
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> { 
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt, 
        TaskAttemptEvent event) { 
        // set the finish time 
        taskAttempt.setFinishTime();
        taskAttempt.eventHandler.handle( 
            createJobCounterUpdateEventTASucceeded(taskAttempt));
        taskAttempt.logAttemptFinishedEvent(TaskAttemptStateInternal.SUCCEEDED);
        taskAttempt.eventHandler.handle(new TaskTAttemptEvent( 
            taskAttempt.attemptId, 
            TaskEventType.T_ATTEMPT_SUCCEEDED));
        taskAttempt.eventHandler.handle 
            (new SpeculatorEvent 
                (taskAttempt.reportedStatus, taskAttempt.clock.getTime()));
    }
}

private static class FailedTransition implements 
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> { 
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) { 
        // set the finish time 
        taskAttempt.setFinishTime();
        if (taskAttempt.getLaunchTime() != 0) { 
            taskAttempt.eventHandler 
                .handle(createJobCounterUpdateEventTAFailed(taskAttempt, false));
        }
    }
TaskAttemptUnsuccessfulCompletionEvent tace =
createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt,
TaskAttemptStateInternal.FAILED);
taskAttempt.eventHandler.handle(new JobHistoryEvent(
taskAttempt.attemptId.getTaskId().getJobId(), tace));
// taskAttempt.logAttemptFinishedEvent(TaskAttemptStateInternal.FAILED); Not
// handling failed map/reduce events.
} else {
LOG.debug("Not generating HistoryFinish event since start event not " +
"generated for taskAttempt: " + taskAttempt.getID());
}
taskAttempt.eventHandler.handle(new TaskAttemptEvent(
    taskAttempt.attemptId, TaskEventType.T_ATTEMPT_FAILED));
}
}

private static class RecoverTransition implements
    MultipleArcTransition<TaskAttemptImpl, TaskAttemptEvent, TaskAttemptStateInternal> {

    @Override
    public TaskAttemptStateInternal transition(TaskAttemptImpl taskAttempt,
        TaskAttemptEvent event) {
        TaskAttemptRecoverEvent tare = (TaskAttemptRecoverEvent) event;
        return taskAttempt.recover(tare.getTaskAttemptInfo(),
            tare.getCommitter(), tare.getRecoverOutput());
    }

    }

    @SuppressWarnings({ "unchecked" })
    private void logAttemptFinishedEvent(TaskAttemptStateInternal state) {
        //Log finished events only if an attempt started.
        if (getLaunchTime() == 0) return;
        String containerHostName = this.container == null ? "UNKNOWN"
            : this.container.getNodeId().getHost();
        int containerNodePort =
            this.container == null ? -1 : this.container.getNodeId().getPort();
        if (attemptId.getTaskId().getTaskType() == TaskType.MAP) {
            MapAttemptFinishedEvent mfe =
                new MapAttemptFinishedEvent(TypeConverter.fromYarn(attemptId),
                    TypeConverter.fromYarn(attemptId.getTaskId().getTaskType()),
                    state.toString(),
                    this.reportedStatus.mapFinishTime,
                    finishTime,
                    containerHostName,
                    containerNodePort,
                    this.nodeRackName == null ? "UNKNOWN" : this.nodeRackName,
                    this.reportedStatus.stateString,
                    getCounters(),
                    this.reportedStatus.stateString,
                    }
getProgressSplitBlock().burst();
eventHandler.handle(
    new JobHistoryEvent(attemptId.getTaskId().getJobId(), mfe));
} else {
    ReduceAttemptFinishedEvent rfe =
        new ReduceAttemptFinishedEvent(TypeConverter.fromYarn(attemptId),
            TypeConverter.fromYarn(attemptId.getTaskId().getTaskType()),
            state.toString(),
            this.reportedStatus.shuffleFinishTime,
            this.reportedStatus.sortFinishTime,
            finishTime,
            containerHostName,
            containerNodePort,
            this.nodeRackName == null ? "UNKNOWN" : this.nodeRackName,
            this.reportedStatus.stateString,
            getCounters(),
            getProgressSplitBlock().burst());
    eventHandler.handle(
        new JobHistoryEvent(attemptId.getTaskId().getJobId(), rfe));
}

private static class TooManyFetchFailureTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings("unchecked")
    @Override
    public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
        // too many fetch failure can only happen for map tasks
        Preconditions
            .checkArgument(taskAttempt.getID().getTaskId().getTaskType() == TaskType.MAP);
        //add to diagnostic
        taskAttempt.addDiagnosticInfo("Too Many fetch failures.Failing the attempt");
        //set the finish time
        taskAttempt.setFinishTime();

        if (taskAttempt.getLaunchTime() != 0) {
            taskAttempt.eventHandler
                .handle(createJobCounterUpdateEventTAFailed(taskAttempt, true));
            TaskAttemptUnsuccessfulCompletionEvent tauce =
                createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt,
                    TaskAttemptStateInternal.FAILED);
            taskAttempt.eventHandler.handle(new JobHistoryEvent(
                taskAttempt.attemptId.getTaskId().getJobId(), tauce));
        } else {
            LOG.debug("Not generating HistoryFinish event since start event not " +
                "generated for taskAttempt: " + taskAttempt.getId());
        }
    taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
public TaskAttemptStateInternal transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
    if (taskAttempt.getID().getTaskId().getTaskType() == TaskType.REDUCE) {
        // after a reduce task has succeeded, its outputs are in safe in HDFS.
        // logically such a task should not be killed. we only come here when
        // there is a race condition in the event queue. E.g. some logic sends
        // a kill request to this attempt when the successful completion event
        // for this task is already in the event queue. so the kill event will
        // get executed immediately after the attempt is marked successful and
        // result in this transition being exercised.
        // ignore this for reduce tasks
        LOG.info("Ignoring killed event for successful reduce task attempt" +
                taskAttempt.getID().toString());
        return TaskAttemptStateInternal.SUCCEEDED;
    }
    if (event instanceof TaskAttemptKillEvent) {
        TaskAttemptKillEvent msgEvent = (TaskAttemptKillEvent) event;
        // add to diagnostic
        taskAttempt.addDiagnosticInfo(msgEvent.getMessage());
    }

    // not setting a finish time since it was set on success
    assert (taskAttempt.getFinishTime() != 0);

    assert (taskAttempt.getLaunchTime() != 0);
    taskAttempt.eventHandler
        .handle(createJobCounterUpdateEventTAKilled(taskAttempt, true));
    TaskAttemptUnsuccessfulCompletionEvent tauce = createTaskAttemptUnsuccessfulCompletionEvent(        
            taskAttempt, TaskAttemptStateInternal.KILLED);
    taskAttempt.eventHandler.handle(new JobHistoryEvent(taskAttempt.attemptId
        .getTaskId().getJobId(), tauce));
    taskAttempt.eventHandler.handle(new TaskTAttemptEvent(taskAttempt.attemptId, TaskEventType.T_ATTEMPT_KILLED));
    return TaskAttemptStateInternal.KILLED;
}
@Override
public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
    // set the finish time
    taskAttempt.setFinishTime();
    if (taskAttempt.getLaunchTime() != 0) {
        taskAttempt.eventHandler
            .handle(createJobCounterUpdateEventTAKilled(taskAttempt, false));
        TaskAttemptUnsuccessfulCompletionEvent tauce =
            createTaskAttemptUnsuccessfulCompletionEvent(taskAttempt,
            TaskAttemptStateInternal.KILLED);
        taskAttempt.eventHandler.handle(new JobHistoryEvent(
            taskAttempt.attemptId.getTaskId().getJobId(), tauce));
    } else {
        LOG.debug("Not generating HistoryFinish event since start event not " +
            "generated for taskAttempt: " + taskAttempt.getID());
    }
    // taskAttempt.logAttemptFinishedEvent(TaskAttemptStateInternal.KILLED); Not logging Map/Reduce attempts in case of failure.
    taskAttempt.eventHandler.handle(new TaskTAttemptEvent(
        taskAttempt.attemptId,
        TaskEventType.T_ATTEMPT_KILLED));
}

private static class CleanupContainerTransition implements
    SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @Override
    public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
        // unregister it to TaskAttemptListener so that it stops listening
        // for it
        taskAttempt.taskAttemptListener.unregister(
            taskAttempt.attemptId, taskAttempt.jvmID);
        taskAttempt.reportedStatus.progress = 1.0f;
        taskAttempt.updateProgressSplits();
        // send the cleanup event to containerLauncher
        taskAttempt.eventHandler.handle(new ContainerLauncherEvent(
            taskAttempt.attemptId,
            taskAttempt.container.getId(), StringInterner
                .weakIntern(taskAttempt.container.getNodeId().toString()),
            taskAttempt.container.getContainerToken(),
            ContainerLauncher.EventType.CONTAINER_REMOTE_CLEANUP));
    }
}
private void addDiagnosticInfo(String diag) {
    if (diag != null && !diag.equals("") ) {
        diagnostics.add(diag);
    }
}

private static class StatusUpdater
    implements SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @SuppressWarnings(“unchecked”)@Override
    public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
        TaskAttemptStatus newReportedStatus =
            ((TaskAttemptStatusUpdateEvent) event).
            getReportedTaskAttemptStatus();
        // Now switch the information in the reportedStatus
        taskAttempt.reportedStatus = newReportedStatus;
        taskAttempt.reportedStatus.taskState = taskAttempt.getState();
        // send event to speculator about the reported status
        taskAttempt.eventHandler.handle
            (new SpeculatorEvent
                (taskAttempt.reportedStatus, taskAttempt.clock.getTime()));
        taskAttempt.updateProgressSplits();
        //if fetch failures are present, send the fetch failure event to job
        //this only will happen in reduce attempt type
        if (taskAttempt.reportedStatus.fetchFailedMaps != null &&
                taskAttempt.reportedStatus.fetchFailedMaps.size() > 0) {
            taskAttempt.eventHandler.handle(new JobTaskAttemptFetchFailureEvent(
                taskAttempt.attemptId, taskAttempt.reportedStatus.fetchFailedMaps));
        }
    }
}

private static class DiagnosticInformationUpdater
    implements SingleArcTransition<TaskAttemptImpl, TaskAttemptEvent> {
    @Override
    public void transition(TaskAttemptImpl taskAttempt, TaskAttemptEvent event) {
        TaskAttemptDiagnosticsUpdateEvent diagEvent =
            (TaskAttemptDiagnosticsUpdateEvent) event;
        LOG.info("Diagnostics report from " + taskAttempt.attemptId + ": "
            + diagEvent.getDiagnosticInfo());
        taskAttempt.addDiagnosticInfo(diagEvent.getDiagnosticInfo());
private void initTaskAttemptStatus(TaskAttemptStatus result) {
    result.progress = 0.0f;
    result.phase = Phase.STARTING;
    result.stateString = "NEW";
    result.taskState = TaskAttemptState.NEW;
    Counters counters = EMPTY_COUNTERS;
    result.counters = counters;
}

package org.apache.hadoop.mapreduce.v2.app.job.event;
import org.apache.hadoop.mapreduce.v2.api.records.JobId;
public class JobCommitCompletedEvent extends JobEvent {

    public JobCommitCompletedEvent(JobId jobID) {
        super(jobID, JobEventType.JOB_COMMIT_COMPLETED);
    }
}

public class JobCommitCompletedEvent extends JobEvent {

    public JobCommitCompletedEvent(JobId jobID) {
        super(jobID, JobEventType.JOB_COMMIT_COMPLETED);
    }
}

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 */
package org.apache.hadoop.mapreduce.v2.app.job.event;

import org.apache.hadoop.mapreduce.v2.api.records.TaskAttemptCompletionEvent;

public class JobTaskAttemptCompletedEvent extends JobEvent {
    private TaskAttemptCompletionEvent completionEvent;

    public JobTaskAttemptCompletedEvent(TaskAttemptCompletionEvent completionEvent) {
        super(completionEvent.getAttemptId().getTaskId().getJobId(),
            JobEventType.JOB_TASK_ATTEMPT_COMPLETED);
        this.completionEvent = completionEvent;
    }

    public TaskAttemptCompletionEvent getCompletionEvent() {
        return completionEvent;
    }
}

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*/
import org.apache.hadoop.mapreduce.v2.api.records.JobId;

public class JobSetupCompletedEvent extends JobEvent {

    public JobSetupCompletedEvent(JobId jobID) {
        super(jobID, JobEventType.JOB_SETUP_COMPLETED);
    }

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     */

    package org.apache.hadoop.mapreduce.v2.app.job.event;

    import org.apache.hadoop.mapreduce.JobStatus;
    import org.apache.hadoop.mapreduce.v2.api.records.JobId;

    public class JobAbortCompletedEvent extends JobEvent {

        private JobStatus.State finalState;

        public JobAbortCompletedEvent(JobId jobID, JobStatus.State finalState) {
            super(jobID, JobEventType.JOB_ABORT_COMPLETED);
            this.finalState = finalState;
        }

        public JobStatus.State getFinalState() {
            return finalState;
        }
    }
}
1.271 hadoop-mapreduce-client-core 2.2.0

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 */

package org.apache.hadoop.mapred.lib;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Random;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.mapred.InputFormat;
import org.apache.hadoop.mapred.InputSplit;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.RecordReader;
import org.apache.hadoop.mapreduce.Job;

@InterfaceAudience.Public
@InterfaceStability.Stable
public class InputSampler<K,V> extends
    org.apache.hadoop.mapreduce.lib.partition.InputSampler<K, V> {

    private static final Log LOG = LogFactory.getLog(InputSampler.class);

    public InputSampler(JobConf conf) {
        super(conf);
    }
public static <K,V> void writePartitionFile(JobConf job, Sampler<K,V> sampler)
    throws IOException, ClassNotFoundException, InterruptedException {
    writePartitionFile(new Job(job), sampler);
}
/**
* Interface to sample using an \@link org.apache.hadoop.mapred.InputFormat\.
*/
public interface Sampler<K,V> extends
    org.apache.hadoop.mapreduce.lib.partition.InputSampler.Sampler<K, V> { 
/**
* For a given job, collect and return a subset of the keys from the
* input data.
*/
K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException;
}
/**
* Samples the first n records from s splits.
* Inexpensive way to sample random data.
*/
public static class SplitSampler<K,V> extends
    implements Sampler<K,V> {

/**
* Create a SplitSampler sampling <em>all</em> splits.
* Takes the first numSamples / numSplits records from each split.
* \@param numSamples Total number of samples to obtain from all selected
* splits.
*/
public SplitSampler(int numSamples) {
    this(numSamples, Integer.MAX_VALUE);
}
/**
* Create a new SplitSampler.
* \@param numSamples Total number of samples to obtain from all selected
* splits.
* \@param maxSplitsSampled The maximum number of splits to examine.
*/
public SplitSampler(int numSamples, int maxSplitsSampled) {
    super(numSamples, maxSplitsSampled);
}
/**
* From each split sampled, take the first numSamples / numSplits records.
@SuppressWarnings("unchecked") // ArrayList::toArray doesn't preserve type
public K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException {
  InputSplit[] splits = inf.getSplits(job, job.getNumMapTasks());
  ArrayList<K> samples = new ArrayList<K>(numSamples);
  int splitsToSample = Math.min(maxSplitsSampled, splits.length);
  int splitStep = splits.length / splitsToSample;
  int samplesPerSplit = numSamples / splitsToSample;
  long records = 0;
  for (int i = 0; i < splitsToSample; ++i) {
    RecordReader<K,V> reader = inf.getRecordReader(splits[i * splitStep],
        job, Reporter.NULL);
    K key = reader.createKey();
    V value = reader.createValue();
    while (reader.next(key, value)) {
      samples.add(key);
      key = reader.createKey();
      ++records;
      if ((i+1) * samplesPerSplit <= records) {
        break;
      }
    }
    reader.close();
  }
  return (K[])samples.toArray();
}

/**
 * Sample from random points in the input.
 * General-purpose sampler. Takes numSamples / maxSplitsSampled inputs from
 * each split.
 */
public static class RandomSampler<K,V> extends
  implements Sampler<K,V> {

  /**
   * Create a new RandomSampler sampling <em>all</em> splits.
   * This will read every split at the client, which is very expensive.
   * @param freq Probability with which a key will be chosen.
   * @param numSamples Total number of samples to obtain from all selected
   *   splits.
   */
  public RandomSampler(double freq, int numSamples) {
    this(freq, numSamples, Integer.MAX_VALUE);
  }
public RandomSampler(double freq, int numSamples, int maxSplitsSampled) {
    super(freq, numSamples, maxSplitsSampled);
}

/**
* Randomize the split order, then take the specified number of keys from
* each split sampled, where each key is selected with the specified
* probability and possibly replaced by a subsequently selected key when
* the quota of keys from that split is satisfied.
*/
@SuppressWarnings("unchecked") // ArrayList::toArray doesn't preserve type
public K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException {
    InputSplit[] splits = inf.getSplits(job, job.getNumMapTasks());
    ArrayList<K> samples = new ArrayList<K>(numSamples);
    int splitsToSample = Math.min(maxSplitsSampled, splits.length);
    Random r = new Random();
    long seed = r.nextLong();
    r.setSeed(seed);
    LOG.debug("seed: "+seed);
    // shuffle splits
    for (int i = 0; i < splits.length; ++i) {
        InputSplit tmp = splits[i];
        int j = r.nextInt(splits.length);
        splits[i] = splits[j];
        splits[j] = tmp;
    }
    // our target rate is in terms of the maximum number of sample splits,
    // but we accept the possibility of sampling additional splits to hit
    // the target sample keyset
    for (int i = 0; i < splitsToSample ||
            (i < splits.length && samples.size() < numSamples); ++i) {
        RecordReader<K,V> reader = inf.getRecordReader(splits[i], job,
                Reporter.NULL);
        K key = reader.createKey();
        V value = reader.createValue();
        while (reader.next(key, value)) {
            if (r.nextDouble() <= freq) {
                if (samples.size() < numSamples) {
                    samples.add(key);
                } else {
// When exceeding the maximum number of samples, replace a
// random element with this one, then adjust the frequency
// to reflect the possibility of existing elements being
// pushed out
int ind = r.nextInt(numSamples);
if (ind != numSamples) {
samples.set(ind, key);
}
freq *= (numSamples - 1) / (double) numSamples;
}
key = reader.createKey();
}
}
reader.close();
}
return (K[])samples.toArray();
}
}

/**
 * Sample from s splits at regular intervals.
 * Useful for sorted data.
 */
public static class IntervalSampler<K,V> extends
 org.apache.hadoop.mapreduce.lib.partition.InputSampler.IntervalSampler<K, V>
 implements Sampler<K,V> {

 /**
 * Create a new IntervalSampler sampling <em>all</em> splits.
 * @param freq The frequency with which records will be emitted.
 */
 public IntervalSampler(double freq) {
  this(freq, Integer.MAX_VALUE);
 }

 /**
 * Create a new IntervalSampler.
 * @param freq The frequency with which records will be emitted.
 * @param maxSplitsSampled The maximum number of splits to examine.
 * @see #getSample
 */
 public IntervalSampler(double freq, int maxSplitsSampled) {
  super(freq, maxSplitsSampled);
 }

 /**
 * For each split sampled, emit when the ratio of the number of records
 * retained to the total record count is less than the specified
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 */

public K[] getSample(InputFormat<K,V> inf, JobConf job) throws IOException {
    InputSplit[] splits = inf.getSplits(job, job.getNumMapTasks());
    ArrayList<K> samples = new ArrayList<K>();
    int splitsToSample = Math.min(maxSplitsSampled, splits.length);
    int splitStep = splits.length / splitsToSample;
    long records = 0;
    long kept = 0;
    for (int i = 0; i < splitsToSample; ++i) {
        RecordReader<K,V> reader = inf.getRecordReader(splits[i * splitStep],
          job, Reporter.NULL);
        K key = reader.createKey();
        V value = reader.createValue();
        while (reader.next(key, value)) {
            ++records;
            if ((double) kept / records < freq) {
                ++kept;
                samples.add(key);
                key = reader.createKey();
            }
        }
        reader.close();
    }
    return (K[])samples.toArray();
}
package org.apache.hadoop.mapred;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * This is used to track task completion events on
 * job tracker.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class TaskCompletionEvent
    extends org.apache.hadoop.mapreduce.TaskCompletionEvent {

    public static final TaskCompletionEvent[] EMPTY_ARRAY = new TaskCompletionEvent[0];

    public static enum Status {FAILED, KILLED, SUCCEEDED, OBSOLETE, TIPOK};

    public static final TaskCompletionEvent[] EMPTY_ARRAY =
        new TaskCompletionEvent[0];

    /**
     * Default constructor for Writable.
     * *
     */
    public TaskCompletionEvent() {
        super();
    }

    /**
     * Constructor. eventId should be created externally and incremented
     * per event for each job.
     * @param eventId event id, event id should be unique and assigned in
     * incrementally, starting from 0.
     * @param isMap
     * @param taskTrackerHttp
     */
    public TaskCompletionEvent(int eventId, int idWithinJob, boolean isMap, Status status, String taskTrackerHttp){
        super(eventId, taskId, idWithinJob, isMap, org.apache.hadoop.mapreduce.
            TaskCompletionEvent.Status.valueOf(status.name()), taskTrackerHttp);
    }

    @Private
public static TaskCompletionEvent downgrade(
    org.apache.hadoop.mapreduce.TaskCompletionEvent event) {
    return new TaskCompletionEvent(event.getEventId(),
        TaskAttemptID.downgrade(event.getTaskAttemptId()), event.idWithinJob(),
        event.isMapTask(), Status.valueOf(event.getStatus().name()),
        event.getTaskTrackerHttp());
}

/**
 * Returns task id.
 * @return task id
 * @deprecated use {@link #getTaskAttemptId()} instead.
 */
@Deprecated
public String getTaskId() {
    return getTaskAttemptId().toString();
}

/**
 * Returns task id.
 * @return task id
 */
public TaskAttemptID getTaskAttemptId() {
    return TaskAttemptID.downgrade(super.getTaskAttemptId());
}

/**
 * Returns enum Status.SUCESS or Status.FAILURE.
 * @return task tracker status
 */
public Status getTaskStatus() {
    return Status.valueOf(super.getStatus().name());
}

/**
 * Sets task id.
 * @param taskId
 * @deprecated use {@link #setTaskAttemptId(TaskAttemptID)} instead.
 */
@Deprecated
public void setTaskId(String taskId) {
    this.setTaskAttemptId(TaskAttemptID.forName(taskId));
}

/**
 * Sets task id.
 * @param taskId
 * @deprecated use {@link #setTaskAttemptId(TaskAttemptID)} instead.
 */
@Deprecated
public void setTaskID(TaskAttemptID taskId) {
    this.setTaskAttemptId(taskId);
}

/**
 * Sets task id.
 * @param taskId
 */
protected void setTaskAttemptId(TaskAttemptID taskId) {
    super.setTaskAttemptId(taskId);
}

/**
 * Set task status.
 * @param status
 */
@Private
public void setTaskStatus(Status status) {
    super.setTaskStatus(org.apache.hadoop.mapreduce.
    TaskCompletionEvent.Status.valueOf(status.name()));
}

/**
 * Set the task completion time
 * @param taskCompletionTime time (in millisec) the task took to complete
 */
@Private
public void setTaskRunTime(int taskCompletionTime) {
    super.setTaskRunTime(taskCompletionTime);
}

/**
 * set event Id. should be assigned incrementally starting from 0.
 * @param eventId
 */
@Private
public void setEventId(int eventId) {
    super.setEventId(eventId);
}

/**
 * Set task tracker http location.
 * @param taskTrackerHttp
 */
@Private
public void setTaskTrackerHttp(String taskTrackerHttp) {
    super.setTaskTrackerHttp(taskTrackerHttp);
package org.apache.hadoop.mapred;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.util.Progressable;

@InterfaceAudience.Private
@InterfaceStability.Unstable
public class JobContextImpl
    extends org.apache.hadoop.mapreduce.task.JobContextImpl
    implements JobContext {
private JobConf job;
private Progressable progress;

public JobContextImpl(JobConf conf, org.apache.hadoop.mapreduce.JobID jobId, Progressable progress) {
    super(conf, jobId);
    this.job = conf;
    this.progress = progress;
}

public JobContextImpl(JobConf conf, org.apache.hadoop.mapreduce.JobID jobId) {
    this(conf, jobId, Reporter.NULL);
}

/**
 * Get the job Configuration
 *
 * @return JobConf
 */
public JobConf getJobConf() {
    return job;
}

/**
 * Get the progress mechanism for reporting progress.
 * @return progress mechanism
 */
public Progressable getProgressible() {
    return progress;
}

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 */

package org.apache.hadoop.mapred;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.mapreduce.Counter;
import org.apache.hadoop.util.Progressable;

@InterfaceAudience.Private
@InterfaceStability.Unstable
public class TaskAttemptContextImpl
    extends org.apache.hadoop.mapreduce.task.TaskAttemptContextImpl
    implements TaskAttemptContext {
    private Reporter reporter;

    public TaskAttemptContextImpl(JobConf conf, TaskAttemptID taskid) {
        this(conf, taskid, Reporter.NULL);
    }
TaskAttemptContextImpl(JobConf conf, TaskAttemptID taskid, Reporter reporter) {
    super(conf, taskid);
    this.reporter = reporter;
}

/**
 * Get the taskAttemptID.
 *
 * @return TaskAttemptID
 */
public TaskAttemptID getTaskAttemptID() {
    return (TaskAttemptID) super.getTaskAttemptID();
}

public Progressable getProgressible() {
    return reporter;
}

public JobConf getJobConf() {
    return (JobConf) getConfiguration();
}

@Override
public float getProgress() {
    return reporter.getProgress();
}

@Override
public Counter getCounter(Enum<?> counterName) {
    return reporter.getCounter(counterName);
}

@Override
public Counter getCounter(String groupName, String counterName) {
    return reporter.getCounter(groupName, counterName);
}

/**
 * Report progress.
 */
@Override
public void progress() {
    reporter.progress();
}

/**
Set the current status of the task to the given string.

```java
@Override
public void setStatus(String status) {
    setStatusString(status);
    reporter.setStatus(status);
}
```

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```java
package org.apache.hadoop.mapred;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.Writable;

public class MapTaskCompletionEventsUpdate implements Writable {
    TaskCompletionEvent[] events;
    boolean reset;
}
```

A class that represents the communication between the tasktracker and child tasks w.r.t the map task completion events. It also indicates whether the child task should reset its events index.

```java
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class MapTaskCompletionEventsUpdate implements Writable {
    TaskCompletionEvent[] events;
    boolean reset;
```
public MapTaskCompletionEventsUpdate() {} 

public MapTaskCompletionEventsUpdate(TaskCompletionEvent[] events, 
    boolean reset) {
    this.events = events;
    this.reset = reset;
}

public boolean shouldReset() {
    return reset;
}

public TaskCompletionEvent[] getMapTaskCompletionEvents() {
    return events;
}

public void write(DataOutput out) throws IOException {
    out.writeBoolean(reset);
    out.writeInt(events.length);
    for (TaskCompletionEvent event : events) {
        event.write(out);
    }
}

public void readFields(DataInput in) throws IOException {
    reset = in.readBoolean();
    events = new TaskCompletionEvent[in.readInt()];
    for (int i = 0; i < events.length; ++i) {
        events[i] = new TaskCompletionEvent();
        events[i].readFields(in);
    }
}


1.272 hadoop-mapreduce-client-jobclient

2.2.0

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Optimised ANSI C code for the Rijndael cipher (now AES)

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Richard Outerbridge
D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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

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

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Determining the term of copyright can be complex, particularly because copyright laws vary from country to country. Also, even if the copyright on a work has expired, you should be careful about how you use a public domain work. For example, a book may be in the public domain, but it might not be ok to scan the book cover to cover and post it on the internet. This is because the particular version of the book may contain new copyrightable material that is not in the public domain, such as cover art or footnotes.

What about fair use?

In limited situations, you can use copyrighted works without permission from the copyright holder. It can be difficult to figure out whether use of copyrighted works without permission is legal, though, because the laws in this area are often vague and vary from country to country.

The copyright law in the United States has a doctrine called "fair use." Fair use provides a defense to copyright infringement in some circumstances. For example, fair use allows documentary filmmakers to use very short clips of
copyrighted movies, music and news footage without permission from the copyright owner. Fair use is a difficult concept because determining whether something is a fair use involves weighing four factors. Unfortunately, weighing the fair use factors rarely results in a clear-cut answer.

Rather than applying a fair use test, many other countries have specific exceptions to copyright infringement. The number and type of exceptions vary by country, but they frequently allow copyrighted materials to be used without permission from the copyright holder for activities such as nonprofit research, teaching, news reporting, or private study.

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If you use someone else's copyrighted materials without permission, that use generally violates the copyright owner's exclusive rights, and is copyright infringement. So if you create a new work and include parts of other peoples works in it (such as an existing photo, lengthy quotes from a book or a loop from a song), you must own or have permission to use the elements you borrow. For example, if your script is based on an existing popular series, you should obtain permission to use the elements you borrow from the series.

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What about fair use?

In limited situations, you can use copyrighted works without permission from the copyright holder. It can be difficult to figure out whether use of copyrighted works without permission is legal, though, because the laws in this area are often vague and vary from country to country.

The copyright law in the United States has a doctrine called fair use. Fair use provides a defense to copyright infringement in some circumstances. For example, fair use allows documentary filmmakers to use very short clips of copyrighted movies, music and news footage without permission from the copyright owner. Fair use is a difficult concept because determining whether something is a fair use involves weighing four factors. Unfortunately, weighing the fair use
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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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version 1.2.2, October 3rd, 2004

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<signature of Ty Coon>, 1 April 1989
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1.377 java-1.7.0-openjdk_AGPLv3 1.7.0.111
:2.6.7.2.el6_8
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1.391 javax-websocket-server-impl

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1.393 javax.annotation API 1.2

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package org.apache.commons.logging;

/**
 * A simple logging interface abstracting logging APIs. In order to be
 * instantiated successfully by {@link LogFactory}, classes that implement
 * this interface must have a constructor that takes a single String
 * parameter representing the "name" of this Log.</p>
 *
 * The six logging levels used by <code>Log</code> are (in order):
 * <ol>
 * <li>trace (the least serious)</li>
 * <li>debug</li>
 * <li>info</li>
 * <li>warn</li>
 * <li>error</li>
 * <li>fatal (the most serious)</li>
 * </ol>
 * The mapping of these log levels to the concepts used by the underlying
 * logging system is implementation dependent.
 * The implementation should ensure, though, that this ordering behaves
 * as expected.</p>
 *
 * Performance is often a logging concern.
 * By examining the appropriate property,
 * a component can avoid expensive operations (producing information
 * to be logged).</p>
 *
 * For example,
 * <pre>
 * if (log.isDebugEnabled()) {
 *     ... do something expensive ...
 *     log.debug(theResult);
 * }
 * </pre>
 *
 * Configuration of the underlying logging system will generally be done
 * external to the Logging APIs, through whatever mechanism is supported by
 * that system.</p>
 *
 * Please note that this interface is identical to that found in JCL
 * 1.1.1.</p>
 *
 * @author <a href="mailto:sanders@apache.org">Scott Sanders</a>
 * @author Rod Waldhoff
public interface Log {

    // ----------------------------------------------- Logging Properties

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

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

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

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

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

// ------------------------------- Logging Methods

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

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

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

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

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

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

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

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

public void error(Object message);

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

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

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

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1.425 jersey-client 1.9

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package com.sun.jersey.api.client;

import java.io.IOException;
import java.io.OutputStream;

/**
   * A committing output stream that commits before the first byte is written to the adapted @link OutputStream@. 
   *
   * This class may be overridden to provide the commit functionality.
   *
   * @author Paul.Sandoz@Sun.Com
   */
   public abstract class CommittingOutputStream extends OutputStream {

      private OutputStream o;

      private boolean isCommitted;

      /**
       * Construct a new instance.
       *
       * The method @link #getOutputStream@ MUST be overridden to return an output stream.
       */
      public CommittingOutputStream() {

      }
/**
 * Construct a new instance with an output stream to adapt.
 * 
 * @param o the adapted output stream.
 * @throws IllegalArgumentException if <code>o</code> is null.
 */
public CommittingOutputStream(OutputStream o) {
    if (o == null)
        throw new IllegalArgumentException();

    this.o = o;
}

@Override
public void write(byte b[]) throws IOException {
    commitWrite();
    o.write(b);
}

@Override
public void write(byte b[], int off, int len) throws IOException {
    commitWrite();
    o.write(b, off, len);
}

public void write(int b) throws IOException {
    commitWrite();
    o.write(b);
}

@Override
public void flush() throws IOException {
    commitWrite();
    o.flush();
}

@Override
public void close() throws IOException {
    commitWrite();
    o.close();
}

private void commitWrite() throws IOException {
    if (!isCommitted) {
        isCommitted = true;
        commit();
    }
}
if (o == null)
    o = getOutputStream();
}

/**
 * Get the adapted output stream.
 * <p>
 * This method MUST be overriden if the empty constructor is
 * utilized to construct an instance of this class.
 * <p>
 * @return the adapted output stream.
 * @throws java.io.IOException
 */
protected OutputStream getOutputStream() throws IOException {
    throw new IllegalStateException();
}

/**
 * Perform the commit functionality.
 * <p>
 * @throws java.io.IOException
 */
protected abstract void commit() throws IOException;

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package com.sun.jersey.client.impl;

import com.sun.jersey.api.client.ClientRequest;
import com.sun.jersey.api.client.ClientRequestAdapter;
import com.sun.jersey.core.header.OutBoundHeaders;

import javax.ws.rs.core.MultivaluedMap;
import java.io.IOException;
import java.io.OutputStream;
import java.net.URI;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public final class ClientRequestImpl extends ClientRequest implements ClientRequestAdapter {
    private Map<String, Object> properties;
    private URI uri;
    private String method;
    private Object entity;
    private final MultivaluedMap<String, Object> metadata;
    private ClientRequestAdapter adapter;

    public ClientRequestImpl(URI uri, String method) {
        this(uri, method, null, null);
    }

    public ClientRequestImpl(URI uri, String method, Object entity, MultivaluedMap<String, Object> metadata) {
        this(uri, method, entity, metadata);
    }

    public ClientRequestImpl(URI uri, String method, Object entity, MultivaluedMap<String, Object> metadata, ClientRequestAdapter adapter) {
        this(uri, method, entity, metadata);
        this.adapter = adapter;
    }

    public static ClientRequestImpl getInstance() {
        return new ClientRequestImpl(null, null);
    }

    // Constructor for test purposes
    private ClientRequestImpl() {
    }

    // Methods
    // ...
public ClientRequestImpl(URI uri, String method, Object entity) {
    this(uri, method, entity, null);
}

public ClientRequestImpl(URI uri, String method, Object entity, MultivaluedMap<String, Object> metadata) {
    this.uri = uri;
    this.method = method;
    this.entity = entity;
    this.metadata = (metadata != null) ? metadata : new OutBoundHeaders();
    this.adapter = this;
}

public Map<String, Object> getProperties() {
    if (properties == null)
        properties = new HashMap<String, Object>();

    return properties;
}

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

public URI getURI() {
    return uri;
}

public void setURI(URI uri) {
    this.uri = uri;
}

public String getMethod() {
    return method;
}

public void setMethod(String method) {
    this.method = method;
}

public Object getEntity() {
    return entity;
}

public void setEntity(Object entity) {
    this.entity = entity;
}
public MultivaluedMap<String, Object> getMetadata() {
    return getHeaders();
}

public MultivaluedMap<String, Object> getHeaders() {
    return metadata;
}

public ClientRequestAdapter getAdapter() {
    return adapter;
}

public void setAdapter(ClientRequestAdapter adapter) {
    this.adapter = (adapter != null ? adapter : this);
}

@Override
public ClientRequest clone() {
    return new ClientRequestImpl(this.uri, this.method,
        this.entity, clone(this.metadata));
}

private static MultivaluedMap<String, Object> clone(MultivaluedMap<String, Object> md) {
    MultivaluedMap<String, Object> clone = new OutBoundHeaders();
    for (Map.Entry<String, List<Object>> e : md.entrySet()) {
        clone.put(e.getKey(), new ArrayList<Object>(e.getValue()));
    }
    return clone;
}

// ClientRequestAdapter

public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {
    return out;
}

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* /
* package com.sun.ws.rs.ext;

import com.sun.jersey.core.spi.factory.AbstractRuntimeDelegate;
import javax.ws.rs.core.Application;
import javax.ws.rs.ext.RuntimeDelegate;

/**
 * A default client-based and hardcoded implementation of
 * { @link RuntimeDelegate} that will be instantiated if all look up mechanisms
 * fail to find an instance.
 * <p>
 * A hardcoded reference to this class name occurs in the { @link RuntimeDelegate}
 * class present in the JAX-RS api jar.
 *
 * @author Paul.Sandoz@Sun.Com
 *
 */
public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {

    @Override
public <T> T createEndpoint(Application application, Class<T> endpointType) 
   throws IllegalArgumentException, UnsupportedOperationException {
   throw new UnsupportedOperationException();
}

1.426 jersey-client 1.17
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 */

package com.sun.jersey.api.client;

import java.io.IOException;
import java.io.OutputStream;

/**
 * A committing output stream that commits before
 */

import java.io.IOException;
import java.io.OutputStream;

/**
 * A committing output stream that commits before
 */
* the first byte is written to the adapted [@link OutputStream].
* <p>
* This class may be overridden to provide the commit functionality.
* <p>
* @author Paul.Sandoz@Sun.Com
*/

public abstract class CommittingOutputStream extends OutputStream {

    private OutputStream o;

    private boolean isCommitted;

    /**
     * Construct a new instance.
     * <p>
     * The method {@link #getOutputStream() } MUST be overridden
     * to return an output stream.
     */
    public CommittingOutputStream() {
    }

    /**
     * Construct a new instance with an output stream to adapt.
     * <p>
     * @param o the adapted output stream.
     * @throws IllegalArgumentException if <code>o</code> is null.
     */
    public CommittingOutputStream(OutputStream o) {
        if (o == null)
            throw new IllegalArgumentException();
        this.o = o;
    }

    @Override
    public void write(byte b[]) throws IOException {
        commitWrite();
        o.write(b);
    }

    @Override
    public void write(byte b[], int off, int len) throws IOException {
        commitWrite();
        o.write(b, off, len);
    }

    public void write(int b) throws IOException {
        commitWrite();
    }
}
public void flush() throws IOException {
    commitWrite();
    o.flush();
}

@Override
public void close() throws IOException {
    commitWrite();
    o.close();
}

private void commitWrite() throws IOException {
    if (!isCommitted) {
        isCommitted = true;
        commit();
        if (o == null)
            o = getOutputStream();
    }
}

/**
 * Get the adapted output stream.
 * 
 * This method MUST be overridden if the empty constructor is
 * utilized to construct an instance of this class.
 *
 * @return the adapted output stream.
 * @throws java.io.IOException
 */
protected OutputStream getOutputStream() throws IOException {
    throw new IllegalStateException();
}

/**
 * Perform the commit functionality.
 *
 * @throws java.io.IOException
 */
protected abstract void commit() throws IOException;

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 */
package com.sun.jersey.client.impl;

import com.sun.jersey.api.client.ClientRequest;
import com.sun.jersey.api.client.ClientRequestAdapter;
import com.sun.jersey.core.header.OutBoundHeaders;
import java.io.IOException;
import java.io.OutputStream;
import java.net.URI;
import java.util.ArrayList;
import javax.ws.rs.core.MultivaluedMap;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public final class ClientRequestImpl extends ClientRequest implements ClientRequestAdapter {
    private Map<String, Object> properties;

    private URI uri;

    private String method;

    private Object entity;

    private final MultivaluedMap<String, Object> metadata;

    private ClientRequestAdapter adapter;

    public ClientRequestImpl(URI uri, String method) {
        this(uri, method, null, null);
    }

    public ClientRequestImpl(URI uri, String method, Object entity) {
        this(uri, method, entity, null);
    }

    public ClientRequestImpl(URI uri, String method, Object entity, MultivaluedMap<String, Object> metadata) {
        this.uri = uri;
        this.method = method;
        this.entity = entity;
        this.metadata = (metadata != null) ? metadata : new OutBoundHeaders();
        this.adapter = this;
    }

    public Map<String, Object> getProperties() {
        if (properties == null)
            properties = new HashMap<String, Object>();
        return properties;
    }

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

    public URI getURI() {
        return uri;
    }
}
public void setURI(URI uri) {
    this.uri = uri;
}

public String getMethod() {
    return method;
}

public void setMethod(String method) {
    this.method = method;
}

public Object getEntity() {
    return entity;
}

public void setEntity(Object entity) {
    this.entity = entity;
}

public MultivaluedMap<String, Object> getMetadata() {
    return getHeaders();
}

public MultivaluedMap<String, Object> getHeaders() {
    return metadata;
}

public ClientRequestAdapter getAdapter() {
    return adapter;
}

public void setAdapter(ClientRequestAdapter adapter) {
    this.adapter = (adapter != null) ? adapter : this;
}

@Override
public ClientRequest clone() {
    return new ClientRequestImpl(this.uri, this.method,
        this.entity, clone(this.metadata));
}

private static MultivaluedMap<String, Object> clone(MultivaluedMap<String, Object> md) {
    MultivaluedMap<String, Object> clone = new OutBoundHeaders();
    for (Map.Entry<String, List<Object>> e : md.entrySet()) {
        clone.put(e.getKey(), new ArrayList<Object>(e.getValue()));
    }
}
return clone;
}

// ClientRequestAdapter

public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {
    return out;
}

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* holder.
package com.sun.ws.rs.ext;

import com.sun.jersey.core.spi.factory.AbstractRuntimeDelegate;
import javax.ws.rs.core.Application;
import javax.ws.rs.ext.RuntimeDelegate;

/**
 * A default client-based and hardcoded implementation of
 * {@link RuntimeDelegate} that will be instantiated if all look up mechanisms
 * fail to find an instance.
 * <p>
 * A hardcoded reference to this class name occurs in the
 * class present in the JAX-RS api jar.
 * <p>
 * @author Paul.Sandoz@Sun.Com
 */
public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {

    @Override
    public <T> T createEndpoint(Application application, Class<T> endpointType)
        throws IllegalArgumentException, UnsupportedOperationException {
        throw new UnsupportedOperationException();
    }
}

1.428 jersey-core 1.17
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This is a Jetty Connector that uses the grizzly NIO layer from glassfish.
It is the start of an effort to integrate Jetty with Glassfish, but this is a very early stage and nothing is working yet....

The compile this you need a maven2 repository with

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet:javax.servlet-api
javax.servlet.jsp:javax.servlet.jsp-api
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp.jstl
org.eclipse.jetty.orbit:javax.servlet.jsp.jstl

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html
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Version: GnuPG v1.4.10 (GNU/Linux)
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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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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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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
Fax: +1 800 822 0471

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Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
</tbody>
</table>

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Version: GnuPG v1.4.3 (GNU/Linux)
iDBBQFFoniQIvHlFus9dGQRAmJmAjlwL5y1loohVQIICsparvjHMQuqwqCgiZFyLBDVaad1bJ1v1EHY901kPcg=
=6rqm
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Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgaq9Frj/CIrIARmuJAKCFgi4W0UOH8IUUn+SV6PBHRF3BnLgCcDqqCZokttk0bTHfwaa5TtxQbScw=
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E-Mail: jstrachan@apache.org  
Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6Izr4c+6kRAtsIAJ41td3lj4OM6sIMfJfT0dYdT1bxwCdGgWv
8sfMxEDZqulqhVbfZU2c76U= =8WW7
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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAkJ9c1eo0Nn2oN59wZVidJExGJjUvKgCfaKji6etDJ6Auji0jTuIS59hU5WMQ=
=HmqH
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Version: GnuPG v1.4.1 (GNU/Linux)
iD8DBQFEeAStXR9WPTAwnLARAjsNAJ4jBB6wC6EqcFljGge7yrAMSrFv/gCgoMC+
5hdry6ZjXRcUhQEYzn2F/T4=
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1.458 jetty-jmx 9.2.15

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1"/>
<title>About</title>
</head>
<body lang="EN-US">
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1.483 Jetty_JBoss 6.1.26 :0

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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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* 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
   */

```java
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}.
 */
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 public static class AbstractArgumentDelimiter implements ArgumentDelimiter {

    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;
    }

    // TODO: handle argument quoting and escape characters

    public void setQuoteChars(String quoteChars) {
        this.quoteChars = quoteChars.toCharArray();
    }

    public String getQuoteChars() {
        return Arrays.toString(quoteChars);
    }

    public void setEscapeChars(String escapeChars) {
        this.escapeChars = escapeChars.toCharArray();
    }

    public String getEscapeChars() {
        return Arrays.toString(escapeChars);
    }

    // Other methods and implementations

    // ...
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()]), bindex, 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 if 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 ant 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.
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 * 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
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()) {
        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);
            }
        }
    }
}
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;
}


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);
}

import java.util.List;

public interface Completer
{
    //
    // FIXME: Check if we can use CharSequece for buffer?
    //

    /*
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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;

    /**
    * 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);

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;
}

package jline.console.completer;

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 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
import static jline.internal.Preconditions.checkNotNull;

/**
 * [Completer] for [Enum] names.
 *
 * @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
 * bash's file name completion (using GNU readline)
 * with the following exceptions:
 * <ul>
 * <li>Candidates that are directories will end with "/"</li>
 * <li>Wildcard regular expressions are not evaluated or replaced</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(separator())) {
            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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 *
 * @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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 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 */
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--

1.488 jline 0.9.94
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package com.sun.el;

import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ExpressionFactory;
import javax.el.MethodExpression;
import javax.el.ValueExpression;

import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.lang.ELSupport;
import com.sun.el.util.MessageFactory;

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 */
public class ExpressionFactoryImpl extends ExpressionFactory {

/**
 * @see javax.el.ExpressionFactory
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: tcfujii $
 */

public ExpressionFactoryImpl() {
    super();
}

public Object coerceToType(Object obj, Class type) {
    Object ret;
    try {
        ret = ELSupport.coerceToType(obj, type);
    } catch (IllegalArgumentException ex) {
        throw new ELException(ex);
    }
    return ret;
}

public MethodExpression createMethodExpression(ELContext context,
        String expression, Class expectedReturnType,
        Class[] expectedParamTypes) {
    if (expectedParamTypes == null) {
        throw new NullPointerException(MessageFactory
                .get("error.method.nullParms"));
    }
    ExpressionBuilder builder = new ExpressionBuilder(expression, context);
    return builder.createMethodExpression(expectedReturnType,
            expectedParamTypes);
}

public ValueExpression createValueExpression(ELContext context,
        String expression, Class expectedType) {
    if (expectedType == null) {
        throw new NullPointerException(MessageFactory
                .get("error.value.expectedType"));
    }
    ExpressionBuilder builder = new ExpressionBuilder(expression, context);
    return builder.createValueExpression(expectedType);
}

public ValueExpression createValueExpression(Object instance,
        Class expectedType) {

if (expectedType == null) {
    throw new NullPointerException(MessageFactory
        .get("error.value.expectedType");
}
return new ValueExpressionLiteral(instance, expectedType);
}

//========================================================================
//$Id: JettyLog.java 1106 2006-10-17 17:00:06Z janb $
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//----------------------------------------------------------------------------

package com.sun.org.apache.commons.logging;

/**
 * Log
 *
 * Bridges the com.sun.org.apache.commons.logging.Log to Jetty's log.
 *
 */
public class JettyLog implements Log
{
    private String _name;
    private org.mortbay.log.Logger _logger;

    /**
     *
     */
    public JettyLog(String name)
    {
        _name = name;
        _logger = org.mortbay.log.Log.getLogger(name);
    }
    public void fatal (Object message)
    {
        _logger.warn(message.toString(), null, null);
    }
public  void fatal (Object message, Throwable t)  
{  
    _logger.warn(message.toString(), t);  
}  

public  void debug(Object message)  
{  
    _logger.debug(message.toString(), null);  
}  

public  void debug (Object message, Throwable t)  
{  
    _logger.debug(message.toString(), t);  
}  

public  void trace (Object message)  
{  
    _logger.debug(message.toString(), null);  
}  

public  void info(Object message)  
{  
    _logger.info(message.toString(), null, null);  
}  

public  void error(Object message)  
{  
    _logger.warn(message.toString(), null);  
}  

public  void error(Object message, Throwable cause)  
{  
    _logger.warn(message.toString(), cause);  
}  

public  void warn(Object message)  
{  
    _logger.warn(message.toString(), null);  
}  

public  boolean isDebugEnabled ()  
{  
    return _logger.isDebugEnabled();  
}  

public  boolean isWarnEnabled ()
{  
    return _logger.isDebugEnabled();  
}

public  boolean isInfoEnabled ()  
{  
    return true;  
}

public  boolean isErrorEnabled ()  
{  
    return true;  
}

public  boolean isTraceEnabled ()  
{  
    return _logger.isDebugEnabled();  
}

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1.522 jsp-api 2.2

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1.539 Kerberos 1.14.3

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
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lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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```
cmd/krb5/iprop/iprop.x
```
```
cmd/krb5/iprop/iprop_hdr.h
```
```
cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
```
```
lib/gss_mechs/mach_spnego/mach/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kgb/kdb_convert.c
```
```
lib/krb5/kgb/kdb_hdr.h
```
```
lib/krb5/kgb/kgb_log.c
```
```
lib/krb5/kgb/kgb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
```
```
lib/libgss/g_dsp_status.c
```
```
lib/libgss/g_dup_name.c
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```
lib/libgss/g_exp_sec_context.c
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```
lib/libgss/g_export_name.c
```
```
lib/libgss/g_glue.c
```
```
lib/libgss/g_imp_name.c
```
```
lib/libgss/g_imp_sec_context.c
```
```
lib/libgss/g_init_sec_context.c
```
```
lib/libgss/g_initialize.c
```
```
lib/libgss/g_inquire_context.c
```
```
lib/libgss/g_inquire_cred.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_process_context.c
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1.548 lcms2 2.6 :3.el7

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1.549 ldb 1:1.1.16-1 :1

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

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1.557 libdnet 1.12 :13.1.el7

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^L

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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.)

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will operate properly with a modified version of the library, if
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.562 libicu 50.1.2 :15

1.563 libicu 53
1.563.1 Available under license :

## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and ## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\.c\) $< \n| sed "\'{s/(\$\{\}o\: )*/\1.o $@ : /g\}v > $@;\n [ -s $@ ] \} || rm -f $@'"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\.cc\) $< \n| sed "\'{s/(\$\{\}o\: )*/\1.o $@ : /g\}v > $@;\n [ -s $@ ] \} || rm -f $@'"

## Versioned libraries rules
%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s {<F} $@
%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO\_TARGET\_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR\_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

### 1.564 libcicu 4.0 :7.24.11

#### 1.564.1 Available under license :

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2006, International Business Machines Corporation and
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$($STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed "\s/(\$\*).o\[ :\]*/\1.o $@ : /g\" > $@\n [ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "\s/(\$\*).o\[ :\]*/\1.o $@ : /g\" > $@\n [ -s $@ ] || rm -f $@

## Versioned libraries rules
%.$($SO).$(SO_TARGET_VERSION_MAJOR): %.$($SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$($SO): %.($SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${{F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

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

<one line to give the program's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:
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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
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Preamble

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

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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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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
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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which the executable runs, unless that component itself accompanies
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Version 3, 29 June 2007

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is a work based on the Library, and explaining where to find the
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### M4sh Initialization. ###
### ------------------ ###
;;; idna.el --- Internationalizing Domain Names in Applications.

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;;; Keywords: idna, idn, domain name, internationalization

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Commentary:

A simple wrapper around the command line "idn" utility in GNU Libidn to make IDNA ToASCII and ToUnicode operations available in Emacs.

1.567 libjpeg-turbo 8d+1.3.1-r0

1.567.1 Notifications:

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DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

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

JPEG is lossy, meaning that the output pixels are not necessarily identical to
the input pixels. However, on photographic content and other "smooth" images,
very good compression ratios can be obtained with no visible compression
artifacts, and extremely high compression ratios are possible if you are
willing to sacrifice image quality (by reducing the "quality" setting in the
compressor.)
This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

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

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

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

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The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
=================

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


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FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does
not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don’t use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

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

******************************************************************************
**     Background
******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

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*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.
Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Un*x and Mac systems and
\texttt{c:\libjpeg-turbo[-gcc][64]} on Windows systems. If your installation of
libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time

Un*x

If a Un*x application is dynamically linked with libjpeg, then you can replace
libjpeg with libjpeg-turbo at run time by manipulating \texttt{LD_LIBRARY_PATH}. For instance:

\begin{verbatim}
[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
  real 0m0.392s
  user 0m0.074s
  sys  0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
  real 0m0.109s
  user 0m0.029s
  sys  0m0.010s
\end{verbatim}

\texttt{({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)}

System administrators can also replace the libjpeg symlinks in \texttt{/usr/lib*} with
links to the libjpeg-turbo dynamic library located in \texttt{/opt/libjpeg-turbo/{lib}}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of \texttt{jpeg62.dll}, \texttt{jpeg7.dll}, or \texttt{jpeg8.dll} (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set:

CXXFLAGS=-I/opt/libjpeg-turbo/include
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an
application that leverages the libjpeg-turbo colorspace extensions (see below.)
On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create
appropriate symlinks to use libjpeg-turbo at run time. On such systems, you
can pass -R /opt/libjpeg-turbo/[lib] to the linker to force the use of
libjpeg-turbo at run time rather than libjpeg (also useful if you want to
leverage the colorspace extensions), or you can link against the libjpeg-turbo
static library.

To force a Un*x or MinGW application to link against the static version of
libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command
line.

To build Visual C++ applications using libjpeg-turbo, add
c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment
variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment
variable, and then link against either jpeg.lib (to use the DLL version of
libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=====================  
Colorspace Extensions
=====================  

libjpeg-turbo includes extensions that allow JPEG images to be compressed
directly from (and decompressed directly to) buffers that use BGR, BGRX,
RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new
colorspace constants:

JCS_EXT_RGB    /* red/green/blue */
JCS_EXT_RGBX   /* red/green/blue/x */
JCS_EXT_BGR    /* blue/green/red */
JCS_EXT_BGRX   /* blue/green/red/x */
JCS_EXT_XBGR   /* x/blue/green/red */
JCS_EXT_XRGB   /* x/red/green/blue */
JCS_EXT_RGBA   /* red/green/blue/alpha */
JCS_EXT_BGRA   /* blue/green/red/alpha */
JCS_EXT_ABGR   /* alpha/blue/green/red */
JCS_EXT_ARGB   /* alpha/red/green/blue */
Setting \texttt{cinfo.in\_color\_space} (compression) or \texttt{cinfo.out\_color\_space} (decompression) to one of these values will cause \texttt{libjpeg-turbo} to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

\begin{verbatim}
#ifdef JCS\_EXTENSIONS
\end{verbatim}

At run time, attempting to use these extensions with a \texttt{libjpeg} implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, \texttt{libjpeg-turbo} can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify \texttt{JCS\_EXT\_RGBA}, \texttt{JCS\_EXT\_BGRA}, \texttt{JCS\_EXT\_ABGR}, or \texttt{JCS\_EXT\_ARGB}. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

\begin{verbatim}
#ifdef JCS\_ALPHA\_EXTENSIONS
\end{verbatim}

\texttt{jcstest.c}, located in the \texttt{libjpeg-turbo} source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

\begin{verbatim}

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With \texttt{libjpeg v7} and \texttt{v8}, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous \texttt{libjpeg} releases. Thus, programs that were built to use \texttt{libjpeg v7} or \texttt{v8} did not work with \texttt{libjpeg-turbo}, since it is based on the \texttt{libjpeg v6b} code base. Although \texttt{libjpeg v7} and \texttt{v8} are still not as widely used as \texttt{v6b}, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the \texttt{libjpeg v7} and \texttt{v8} ABIs in \texttt{libjpeg-turbo}. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use \texttt{libjpeg v7+} could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. \texttt{libjpeg-turbo} does not claim to support all of the \texttt{libjpeg v7+} features, nor to produce identical output to \texttt{libjpeg v7+} in all cases (see below.)

\end{verbatim}
By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:
-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

---------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with
existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====================================  
In-Memory Source/Destination Managers  
=====================================  

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************  
**     Mathematical Compatibility  
*******************************************************************************  

For the most part, libjpeg-turbo should produce identical output to libjpeg
v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

******************************************************************************
**     Performance Pitfalls
******************************************************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================


The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

**1.568 libjson 0.11-2**

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1.569.1 Available under license :
$Id: COPYING,v 1.1.1.1 2003/06/26 21:55:10 route Exp $

libnet 1.1.x
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1.572 libpcap 1.6.2 :1.0

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1.573 libpng 1.2.50

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glennrp at users.sourceforge.net
January 22, 2013

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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
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it.

Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.597 Im_sensors 2.8.7 :2

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Comment: The following changes were made to the upstream tarball:
1.) The directory dialects/uw was removed for being non-DFSG
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1.624 mawk 1.3.3-17

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For http-parser
(3rdparty/libprocess/3rdparty/ry-http-parser-1c3624a.tar.gz):
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* Small patch improving performance of in Python serialization.

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

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* HPUX support.

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* 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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# SYNOPSIS

# AX_PYTHON_DEVEL([version])

# DESCRIPTION

# Note: Defines as a precious variable "PYTHON_VERSION". Don't override it in your configure.ac.

# This macro checks for Python and tries to get the include path to 'Python.h'. It provides $(PYTHON_CPPFLAGS) and $(PYTHON_LDFLAGS) output variables. It also exports $(PYTHON_EXTRA_LIBS) and $(PYTHON_EXTRA_LDFLAGS) for embedding Python in your code.

# You can search for some particular version of Python by passing a parameter to this macro, for example ">= '2.3.1'", or "== '2.4'". Please note that you *have* to pass also an operator along with the version to match, and pay special attention to the single quotes surrounding the version number. Don't use "PYTHON_VERSION" for this: that environment variable is declared as precious and thus reserved for the end-user.

# This macro should work for all versions of Python >= 2.1.0. As an end user, you can disable the check for the python version by setting the PYTHON_NOVERSIONCHECK environment variable to something else than the empty string.
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  var x;
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    x = ""<br><p>The following are other community resources that may be helpful:"<br><br><a
urchinTracker();

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</body>
</html>

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# PARTICULAR PURPOSE.
# ck-copyright-notice can be run from the tools directory

dir=`pwd`
[ -d src ] || [ "basename "$dir"" != tools ] || cd ..

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

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

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

err=0
for file in $srctests
do
  y=""
case $file in
tests/RRTest.c)
    # This file doesn't have a copyright notice, but isn't distributed.
    continue ;;
src/mpfr-longlong.h)
    # This file (which comes from GMP) has a specific copyright notice.
    continue ;;
src/get_patches.c)
    file="tools/get_patches.sh" ;;
    */mpparam.h)
    y="2005," ;;
esac
  esac
grep -q "Copyright $y.* Free Software Foundation" "$file" &
grep -q "GNU MPFR Library" "$file" &
grep -q "either version $lgpl of the License" "$file" & continue
echo "Possibly missing or incorrect copyright notice in $file"
err=1
done

exit $err
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JPython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1. In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 is developed by a group of volunteers.

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Open Source Used In Stealthwatch Flow Collector 6.9.2

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-------------------------------------------------------------------------------

Files: install-sh
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This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction shared with many OS’s install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2`

1.653 ncurses 5.5 :24.20060715

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1.654 neon 0.25.2 :2.0.0.0704076

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threshold for this to be true is not precisely defined by law.

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* src/fdlibm

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The upstream for fdlibm is libgcj (http://gcc.gnu.org/java/), they sync
again with the 'real' upstream (http://www.netlib.org/fdlibm/readme).

* src/threads/green/{locks.[ch],threadio.[ch],threads.[ch]}

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* src/vm/jit/{i386,x86_64}/dis-asm.h,i386-dis.c

Print i386 instructions for GDB, the GNU debugger.

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* src/vm/jit/{i386,x86_64}/dis-asm.h

Interface between the opcode library and its callers.

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Written by Cygnus Support, 1993.

The opcode library (libopcodes.a) provides instruction decoders for
a large variety of instruction sets, callable with an identical interface, for making instruction-processing programs more independent of the instruction set being processed.

* src/vm/jit/powerpc/{ppc.h,ppc-dis.c,ppc-opc.c}*

Written by Ian Lance Taylor, Cygnus Support

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* src/lib/classes/*

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* m4/{iconv.m4,lib-ld.m4,lib-link.m4,lib-prefix.m4}

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* src/toolbox/avl.[ch]

libavl - library for manipulation of binary trees.
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* src/vm/unzip.[ch]

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src/mm/boehm-gc/libatomic_ops-1.2/src/atomic_ops/sysdeps/armcc

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END src/solaris/native/sun/awt/HPkeysym.h

BEGIN src/solaris/native/sun/awt/Xinerama.c

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END src/solaris/native/sun/awt/Xinerama.h

BEGIN src/solaris/native/sun/awt/Xrandr.h

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*/

END src/solaris/native/sun/awt/Xrandr.h

BEGIN src/solaris/native/sun/awt/extutil.h

/*
 * $Xorg: extutil.h,v 1.3 2000/08/18 04:05:45 coskrey Exp $

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*/

/* $XFree86: xc/include/extensions/extutil.h,v 1.5 2001/01/17 17:53:20 dawes Exp $ */

END src/solaris/native/sun/awt/extutil.h

****************************************************
BEGIN src/solaris/native/sun/awt/fontconfig.h

/* $RCSId: xc/lib/fontconfig/fontconfig/fontconfig.h,v 1.30 2002/09/26 00:17:27 keithp Exp $ */

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END src/solaris/native/sun/awt/fontconfig.h
***************************************************************
BEGIN src/solaris/native/sun/awt/list.c
AND src/solaris/native/sun/awt/list.h
AND src/solaris/native/sun/awt/multiVis.c
AND src/solaris/native/sun/awt/multiVis.h
AND src/solaris/native/sun/awt/wsutils.h

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AND src/solaris/native/sun/awt/list.h
AND src/solaris/native/sun/awt/multiVis.c
AND src/solaris/native/sun/awt/multiVis.h
AND src/solaris/native/sun/awt/wsutils.h
BEGIN src/solaris/native/sun/awt/panoramiXext.h
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BEGIN src/solaris/native/sun/awt/randr.h

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END src/solaris/native/sun/awt/randr.h
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BEGIN src/solaris/native/sun/java2d/opengl/J2D_GL/glx.h
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* Version: 4.1
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END src/solaris/native/sun/java2d/opengl/J2D_GL/glx.h

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* src/mm/boehm-gc

Merged in the Boehm-Weiser garbage collector from

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* src/fdlibm

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The upstream for fdlibm is libgcj (http://gcc.gnu.org/java/), they sync again with the 'real' upstream (http://www.netlib.org/fdlibm/readme).

* src/threads/green/{locks.[ch],threadio.[ch],threads.[ch]}

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* src/vm/jit/{i386,x86_64}/{dis-asm.h,i386-dis.c}

Print i386 instructions for GDB, the GNU debugger.

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* src/vm/jit/{i386,x86_64}/dis-asm.h

Interface between the opcode library and its callers.

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Written by Cygnus Support, 1993.

The opcode library (libopcodes.a) provides instruction decoders for
a large variety of instruction sets, callable with an identical
interface, for making instruction-processing programs more independent
of the instruction set being processed.

* src/vm/jit/powerpc/{ppc.h,ppc-dis.c,ppc-opc.c}

Written by Ian Lance Taylor, Cygnus Support
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* src/toolbox/avl.[ch]

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* src/vm/unzip.[ch]

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src/mm/boehm-gc/libatomic_ops-1.2/src/atomic_ops/sysdeps/armcc

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src/mm/boehm-gc/include/private

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contrib/vmlog:

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JAMVM:

Robert Lougher <rob@jamvm.org.uk>.

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HISTORY -

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

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

Some other contributors:

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

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

1.680 openjdk-8 1.8.0 :51
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1.681 openldap 2.4.40

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scriptversion=2005-07-09.11


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1.684 OpenSHMEM 1.0g

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  * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* $Id: easy-tls.c,v 1.4 2002/03/05 09:07:16 bodo Exp $
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* OpenSSL integration was taken from Emilia Kasper’s work in ecp_nistp224.c.
* Otherwise based on Emilia’s P224 work, which was inspired by my curve25519
* work which got its smarts from Daniel J. Bernstein’s work on the same.
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1.689 OpenSSL 1.0.2g :1

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1.690 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 project.
    * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any size keys (Implemented RFC5649)
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1.691 openwall MD5 n/a

1.692 opticks 4.3.3
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 #getApplicationId()} and {@link #getInstanceId()}) to an
 * invalidated context object result an {@code IllegalStateException}.
 *<p>
 * @see org.osgi.application.Framework
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.
 */

   @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.IllegalArgumentException 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.
 */

   @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
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 application'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 application'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}].
* */
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\}.
 * <p>
 * @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.
 * <p>
 * @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.

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.

The following steps are required to register a service:

1. 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>
2. 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>
3. The service is added to the Framework service registry and may now be
   used by others.</li>
4. 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>
5. A [@code ServiceRegistration] object for this registration is
   returned.</li>

@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 [@code null].
@param service The service object or a [@code ServiceFactory] object.
@param properties The properties for this service. The keys in the
* properties object must all be [@code 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
* method must be called. The set of properties may be \{code 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>{@code service} is \{code null\}.</li>
  * <li>{@code service} is not a \{code ServiceFactory\} object and is not an instance of all the named classes in \{code clazzes\}.</li>
  * <li>{@code properties} contains case variants of the same key name.</li>
  * </ul>
* @throws NullPointerException if \{code clazzes\} is \{code null\}
* 
* @throws java.lang.SecurityException If the caller does not have 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.
 * 
 * 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
* 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.
 * <p>
 * @see org.osgi.framework.ServiceEvent
 * @see ApplicationServiceListener
 * <p>
 * @author $Id: feb6a13123707549d3efdb5f06ba69ee82368cb9$
 */

public class ApplicationServiceEvent extends ServiceEvent {

private static final long serialVersionUID = -4762149286971897323L;
final Object serviceObject;

/**
 * Creates a new application service event object.
 * <p>
 * @param type The event type. Available type codes are defined 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 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 {ApplicationContext.locateService} or
* {ApplicationContext.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;
}

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}.
* *
* {code ApplicationServiceListener} is a listener interface that may be
* implemented by an application developer.
* *
* 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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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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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].
 * <p>
 * @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 `signer` and `pid`. The pattern specified in the `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 `pid` is matched with the PID of the application according to the filter string rules.

* If the `filter` is `null` then it matches `"*"`. If `actions` is `null` then it identifies all the possible actions.

* @param filter filter to identify application. The value `null` is equivalent to `"*"` 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 `null`. The order of the actions in the list is not significant.
* @throws InvalidSyntaxException is thrown if the specified `filter` is not syntactically correct.
* @exception NullPointerException is thrown if the actions parameter is `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
* `ApplicationAdminPermission` instance for `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.getApplicationId());

  if (application == null || actions == null)
    throw new NullPointerException("ApplicationDescriptor and action string cannot be null!");

  this.filter = application.getApplicationId();
  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
    * [ApplicationAdminPermission(String, String)])</li>
  * `<li>` The implied [@code otherPermission] was created for a particular
    * [ApplicationDescriptor] (see
    * ApplicationAdminPermission(ApplicationDescriptor, String))</li>
  * `<li>` The [@code filter] of this permission mathes the
    * [@code ApplicationDescriptor] specified in the [@code otherPermission].
  * `<li>` 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
  * `<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 (other.applicationID.equals(other.applicationDescriptor.getApplicationId()))
          return false;
    }

    if (other.applicationDescriptor == null)
      return false;
  }

  return true if this permission implies the [@code otherPermission],
  * false otherwise.
  */
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 StringapplicationID;
private static final VectorACTIONS= new Vector();
private VectoractionsVector;
private final Stringfilter;
private final Stringactions;
private FilterappliedFilter= 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;
}

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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;
    }
}
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;

public abstract class ApplicationDescriptor {

    public static final String APPLICATION_NAME = "application.name";

    public abstract class ApplicationDescriptor {

        public static final String APPLICATION_NAME = "application.name";

    }

    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 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.
     */

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
 * method to match target (@code ApplicationDescriptor) and filter.
 * <p>
 * @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.
 * <p>
 * @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 IOException if the application descriptor is
* unregistered
*/

class 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;
}
* 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.
 *
 * 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
 *       {code 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.
 *
 * 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.</li>
 *   <li>In particular, the keys standardized in OSGi should start with
 *       ...
public final ApplicationHandle launch(Map arguments) throws ApplicationException {
    try {
        delegate.launch(arguments);
        return launchSpecific(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 registeres the application handle
* to represent the newly created and started instance and registeres 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.
* <p>
* @param arguments the startup parameters of the new application instance,
*        may be null
* <p>
* @return the registered application model specific application handle for
*        the newly created and started instance.
* <p>
* @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.
* <p>
* @return true, if the application is launchable according to the
*        container, false otherwise.
* <p>
* @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 catched 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 catched 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 IllegalArgumentException 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
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 catched 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, 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 {
        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);
    }
}

/*
 * Copyright (c) OSGi Alliance (2005, 2013). All Rights Reserved.
 * Licensed under the Apache License, Version 2.0 (the "License");
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> APPLICATION_LOCKED - The application couldn't be launched
 * because it is locked.</li>
 * <li> APPLICATION_NOT_LAUNCHABLE - The application is not in
 * launchable state.</li>
 * <li> APPLICATION_INTERNAL_ERROR - An exception was thrown by the
 * application or its container during launch.</li>
 * <li> APPLICATION_SCHEDULING_FAILED - The scheduling of an application
 * failed.</li>
 * <li> APPLICATION_DUPLICATE_SCHEDULE_ID - The application scheduling
 * failed because the specified identifier is already in use.</li>
 * <li> APPLICATION_EXITVALUE_NOT_AVAILABLE - The exit value is not
 * available for an application instance because the instance has not
 * terminated.</li>
 * <li> 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;

  @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
/**
 * 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
 * [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.
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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 * 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 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: 4a9c1d6258e03ce4eb1a26748bfc83661ad8244 $
 */
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:
* `{@i application descriptor PID}@<i>index</i>` where
* `{@i application descriptor PID}` is the PID of the corresponding
* `{@code ApplicationDescriptor}` and `<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.
* <p>
* @param instanceId the instance identifier of the represented application
* instance. It must not be null.
* <p>
* @param descriptor the `{@code ApplicationDescriptor}` of the represented
* application instance. It must not be null.
* <p>
* @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>
 * <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_NOTAVAILABLE].
 * @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.
 *
 * @throws SecurityException if the caller doesn't have "lifecycle"
 *         @code ApplicationAdminPermission} for the corresponding
 *         application.
 * @throws IllegalStateException if the application handle is unregistered
 *
 * @throws IllegalArgumentException 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.
 *
 * @throws IllegalStateException if the bundle was
 *         @code ApplicationHandle} has been
 *         uninstalled 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.
 *
 * @param instance the instance
 */
public final void destroy() {
    try {
        delegate.destroy();
    } catch (SecurityException se) {
        descriptor.isLaunchableSpecific(); /*
        * check whether the bundle was
        * uninstalled
        */
    }
    if (yes, throws IllegalStateException so
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());
                }
                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);
    }
}

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: 69c9a4995399ff1619ec236dc9ae2553a12d1ae $
 */

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

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();

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: 8d063b34f0b7e467b8bf7ecd8b8e6d42384fdeb7 $ 
 * @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].
     * 
     */
    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].
 * @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 == '' || c == '
' || c == '' || c == '	'))
            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] == 'a' || a[i - 6] == 'A')
                && (a[i - 5] == 'c' || a[i - 5] == 'C')
                && (a[i - 4] == 't' || a[i - 4] == 'T')
                && (a[i - 3] == 'e' || a[i - 3] == 'E')
                && (a[i - 2] == 'r' || a[i - 2] == 'R')
                && (a[i - 1] == 's' || a[i - 1] == 'S')
                && (a[i] == 'e')
                && (a[i + 1] == 'c')
                && (a[i + 2] == 'e'))
                {
                    matchlen = 10;
                    mask |= ACTION_SOURCE;
                } else
                    if (i >= 9 && (a[i - 9] == 's' || a[i - 9] == 'S')
                        && (a[i - 8] == 't' || a[i - 8] == 'T')
                        && (a[i - 7] == 'c' || a[i - 7] == 'C')
                        && (a[i - 6] == 'e' || a[i - 6] == 'E')
                        && (a[i - 5] == 'c' || a[i - 5] == 'C')
                        && (a[i - 4] == 't' || a[i - 4] == 'T')
                        && (a[i - 3] == 'e' || a[i - 3] == 'E')
                        && (a[i - 2] == 'r' || a[i - 2] == 'R')
                        && (a[i - 1] == 's' || a[i - 1] == 'S')
                        && (a[i] == 'e'))
                        {
                            matchlen = 11;
                            mask |= ACTION_DESTINATION;
                        } else
                            if (i >= 10 && (a[i - 10] == 's' || a[i - 10] == 'S')
                                && (a[i - 9] == 't' || a[i - 9] == 'T')
                                && (a[i - 8] == 'c' || a[i - 8] == 'C')
                                && (a[i - 7] == 'e' || a[i - 7] == 'E')
                                && (a[i - 6] == 'c' || a[i - 6] == 'C')
                                && (a[i - 5] == 't' || a[i - 5] == 'T')
                                && (a[i - 4] == 'e' || a[i - 4] == 'E')
                                && (a[i - 3] == 'r' || a[i - 3] == 'R')
                                && (a[i - 2] == 's' || a[i - 2] == 'S')
                                && (a[i - 1] == 'e')
                                && (a[i] == 'c')
                                && (a[i + 1] == 'e'))
                                {
                                    matchlen = 12;
                                    mask |= ACTION_CHAIN;
                                } else
                                    if (i >= 11 && (a[i - 11] == 's' || a[i - 11] == 'S')
                                        && (a[i - 10] == 't' || a[i - 10] == 'T')
                                        && (a[i - 9] == 'c' || a[i - 9] == 'C')
                                        && (a[i - 8] == 'e' || a[i - 8] == 'E')
                                        && (a[i - 7] == 'c' || a[i - 7] == 'C')
                                        && (a[i - 6] == 't' || a[i - 6] == 'T')
                                        && (a[i - 5] == 'e' || a[i - 5] == 'E')
                                        && (a[i - 4] == 'r' || a[i - 4] == 'R')
                                        && (a[i - 3] == 's' || a[i - 3] == 'S')
                                        && (a[i - 2] == 'e')
                                        && (a[i] == 'c')
                                        && (a[i + 1] == 'e')
                                        && (a[i + 2] == 'c')
                                        && (a[i + 3] == 'e'))
                                        {
                                            matchlen = 13;
                                            mask |= ACTION_CHAIN;
                                        }
        }
    }

    return mask;
}
&& (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 '' :
        case '
' :
        case '' :
        case '	' :
            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 */
    }
    case 'W': {
        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;
                } else /* xxx */{
                    int len = substr.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);
                }
            } /* last substr */{
                if (substr == null) /* */{
                    return true;
                } /* xxx */
                return false;
            }
        } /* last substr */{
        return false;
    }

    /* **
     * Determines the equality of two ConfigurationPermission objects.
     */
* 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: [code #CONFIGURE], [code #TARGET]
 * *
 * @return Canonical string representation of the
 * [code ConfigurationPermission] actions.
 */

public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        return sb.toString();
    }

    result = result.replace('#', '
');
    return result;
}
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
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);
            }
        } 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 [ConfigurationPermission] objects in
 * the container.
 * @return Enumeration of all [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>(null));
    all_allowed = gfields.get("all_allowed", false);
  }
}
/*
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 */

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.
 */
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: 835125670fa25ca1205beacabbb2d4cfa5896fd4 $
 **/
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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 */
package org.osgi.service.component.annotations;

/**
 * Policy option for the [@link Reference] annotation.
 *
 * @author $Id: 1023cb41ab8539820d1658af1eb7d08944932353 $ $Revision: 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;
    }
}
return value;
}
}    /*
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* 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: 13aa34eaea5f268a315be475fa88b7b2718415bd $
*/

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:
 * <p>
 * <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 [CoordinationPermission] object to be used
 * by the code that must perform [checkPermission].
 * [CoordinationPermission] objects created with this constructor
 * cannot be added to an [CoordinationPermission] permission
 * collection.
 *
 * @param coordinationName The name of the requested Coordination.
 * @param coordinationBundle The bundle which
 *    [Coordination#getBundle()] created the requested
 *    Coordination.
 * @param actions [admin], [initiate] or [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 [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;
    } else {
        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 == '' || c == '
' || c == '' || c == '	'))
                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;
                seencomma = true;
            }
            // update mask
            if (i >= 3 && (a[i - 3] == 'o' || a[i - 3] == 'O')
                && (a[i - 2] == 'c' || a[i - 2] == 'C')
                && (a[i - 1] == 'e' || a[i - 1] == 'E')
                && (a[i] == '"')) {
                mask |= ACTION_NORMAL;
            }
            // return mask
            if (i < 0)
                return mask;
            while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
                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')) {
            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 '' :
    case '
' :
    case '' :
    case '	' :
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.
@param p The requested permission.
@return [true] if the specified permission is implied by this object; [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 [true] if the specified permission is implied by this object; [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}.
 * <p>
 * @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.
 * <p>
 * @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)));
}

public int hashCode() {
  int h = 31 * 17 + getName().hashCode();
  h = 31 * h + getActions().hashCode();
  if (bundle != null) {
    h = 31 * h + bundle.hashCode();
  }
  return h;
}

/**
 * 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
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();
}

/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));
}

/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.getBundleId()));
                map.put("location", bundle.getLocation());
                String name = bundle.getSymbolicName();
                if (name != null) {
                    map.put("name", name);
                }
                SignerProperty signer = new SignerProperty(bundle);
                if (signer.isBundleSigned()) {
                    // Additional code...
                }
            }
        });
    }
    return map;
}
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.
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 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 CoordinationPermission object to add.
     * @throws IllegalArgumentException If the specified permission is not a CoordinationPermission instance or was constructed with a Bundle object.
     * @throws SecurityException If this 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);
            }
        } 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 ObjectStreamField[] serialPersistentFields = {
  new ObjectStreamField("permissions", HashMap.class),
  new ObjectStreamField("all_allowed", Boolean.TYPE)};
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 FilePermission with "read", "write" and "delete" actions for the returned java.io.File that represents the the base directory of the persistent storage area and for its subdirectories.

The actions string is converted to lowercase before processing.

public class DeploymentCustomizerPermission extends Permission {

/**
 * Constant String to the "privatearea" action.
 */
public static final String PRIVATEAREA = "privatearea";

private static final long serialVersionUID = 1L;

/**
 * Creates a new DeploymentCustomizerPermission object for the given
 * name and action.
 */
public static DeploymentCustomizerPermission create(String name, String action) {
    return new DeploymentCustomizerPermission(name, action);
}

private static final Constructor constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
    public Object run() {
        String pckg = System.getProperty(delegateProperty);
        if (null == pckg)
            throw new RuntimeException("Property "+ delegateProperty + " is not set");
        try {
            Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
            return c.getConstructor(new Class[]{String.class, String.class});
        }
        catch (Exception e) {
            throw new RuntimeException(e);
        }
    }
});

/**
 * Returns the Constant String for the given action.
 */
public static String getConstant(String action) {
    switch (action.toLowerCase()) {
        case PRIVATEAREA:
            return PRIVATEAREA;
        default:
            return null;
    }
}

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 pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property " + delegateProperty + " is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[]{String.class, String.class});
            }
            catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });

    /**
     * Returns the Constant String for the given action.
     */
    public static String getConstant(String action) {
        switch (action.toLowerCase()) {
            case PRIVATEAREA:
                return PRIVATEAREA;
            default:
                return null;
        }
    }
}

private final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private final Constructor constructor;
private final Permission delegate;
static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property " + delegateProperty + " is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[]{String.class, String.class});
            }
            catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });

    /**
     * Returns the Constant String for the given action.
     */
    public static String getConstant(String action) {
        switch (action.toLowerCase()) {
            case PRIVATEAREA:
                return PRIVATEAREA;
            default:
                return null;
        }
    }
}

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.

```
Permission perm = new DeploymentCustomizerPermission(
    "(name=com.acme.bundle)\", "privatearea\";);
```

The Resource Processor that has this permission is allowed to access the bundle's private area by calling the `DeploymentSession#getDataFile(Bundle)` method. The Resource Processor will have `FilePermission` with "read", "write" and "delete" actions for the returned `java.io.File` and its subdirectories during the deployment session.

```
@throws IllegalArgumentException if the filter is invalid, the list of actions contains unknown operations or one of the parameters is `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 (InstantiationException e) {
            throw e;
        }
        catch (IllegalAccessException e) {
            throw e;
        }
        catch (ArrayStoreException e) {
            throw new RuntimeIOException(e);
        } catch (InstantiationException e) {
            throw new RuntimeIOException(e);
        } catch (IllegalAccessException e) {
            throw new RuntimeIOException(e);
        }
    }
    /**
    * Checks two DeploymentCustomizerPermission objects for equality. Two permission objects are equal if:
    * <p>
    *
their target filters are equal (semantically and not character by
case and)
their actions are the same

@staticmethod
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:
 *
 * 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!
* </ul>
* <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();
}

}
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.
 * 
 * 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:
 * 
 * (signer=cn=*,o=ACME,c=*)
 * 
 * "cn" and "c" may have an arbitrary value
 * 
 * (signer=*, o=ACME, c=US)
 * 
 * Only the value of "o" and "c" are significant
 * 
 */
* (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 &lt;filter&gt; string. The filter selects
* the deployment packages on which the holder of the permission can acquire
* detailed inventory information. See
* @{DeploymentAdmin#getDeploymentPackage(Bundle)},
* [{@DeploymentAdmin#getDeploymentPackage(String)} and
* @{DeploymentAdmin#listDeploymentPackages}.
* <p>
*
* <b>install</b>
* <p>
* A holder of this permission can install/update deployment packages if the
* deployment package satisfies the &lt;filter&gt; string. See
* @{DeploymentAdmin#installDeploymentPackage}.
* <p>
*
* <b>uninstall</b>
* 
* A holder of this permission can uninstall deployment packages if the
* deployment package satisfies the &lt;filter&gt; string. See
* [@link DeploymentPackage#uninstall()].
* 
* <b>uninstall_forced</b>
* 
* A holder of this permission can forcefully uninstall deployment packages if
* the deployment package satisfies the &lt;filter&gt; string. See
* [@link DeploymentPackage#uninstallForced()].
* 
* <b>cancel</b>
* 
* 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 &lt;filter&gt; string. See
* [@link DeploymentAdmin#cancel()]
* 
* <b>metadata</b>
* 
* 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#getResourceStrings()]
* 
* 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.

public static final String INSTALL = "install";

/**
 * Constant String to the "list" action.
 *
public static final String LIST = "list";

/**
 * Constant String to the "uninstall" action.
 *
public static final String UNINSTALL = "uninstall";

/**
 * Constant String to the "uninstall_forced" action.
 *
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
 * Constant String to the "cancel" action.
 *
public static final String CANCEL = "cancel";

/**
 * Constant String to the "metadata" action.
 *
* @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 pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property "+ delegateProperty + " is not set");
            try {
                Class c = Class.forName(pckg + ".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.
 * <p>
 * @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>
 * <p>
 * @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.
 *<p>
 * @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:
 */

}
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:
 * <p>
 * <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>
 * <p>
 * @param permission Permission to check.
 * @return true if this DeploymentAdminPermission object implies the
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 {quote}*{quote}; 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 [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 [String] to match any
 *             server identifier with the given prefix
 * @param actions no actions defined, must be "*" for forward compatibility
 * @throws NullPointerException if [String] or [String] is
 *         null
 * @throws IllegalArgumentException if [String] is empty or
 *         [String] 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 [String] 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 [String] in the current version).
 *
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 \"*\" 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();
}
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();
            perms.add(permission);
        }
    }
}
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 [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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 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 */
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("./OSGi/bundles", "Add,Replace,Get");
 *</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("./OSGi/bundles/\*", "Get");
 *</pre>
 * This means that owner of this permission has Get access on every child node
 * of ./OSGi/bundles. The asterix 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
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>
 * 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 \} charater. For example
 * the URI { @code "./a*" } matches { @code "./a" }, { @code "./aa" },
 * { @code "./a/b" } etc. while { @code "./a\*" } matches { @code "./a*" } only.
 * 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() {
}
* Checks if this DmtPermission object "implies" 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.
 * @return an enumeration of all the DmtPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

/**
 * Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
 * Licensed under the Apache License, Version 2.0 (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 "*" 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 static final boolean isPrefix;
    // the target string without the wildcard (if there was one)
    private static 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;*";
*/
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
* &quot;*" 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 serialVersionUID = -6692103535775802684L;

private ArrayList perms;

/**
* Create an empty DmtPrincipalPermissionCollection object.
*/
public DmtPrincipalPermissionCollection() {
perms = new ArrayList();
}

/**
* Adds a permission to the DmtPrincipalPermissionCollection.
*/
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: ab7441ab9ccce82894de416498a66b9376001581 $
 */
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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 * 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.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.
 *
 * A topic is a slash-separated string that defines a topic.
 * For example:
 *
 * org/osgi/service/foo/FooEvent/ACTION
 *
 * {}@code TopicPermission} has two actions: {}@code publish} and
 * {}@code subscribe}.
 *
 * {}@ThreadSafe
 * {}@author $Id: f20bc549a406856113998df2068c0fb38c0be88$
 */
public final class TopicPermission extends Permission {
  static final long serialVersionUID = -585563886961618300L;

  /**
   * 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;
*/
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:
 * <p>
 * <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 TopicPermission] 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;
    return mask;
    while (i != -1) {
        char c;
        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            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 '
' : case '' : case '
' : case '' : case '	' :
        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.
 *
 * 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.
 *
 * @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 true if {@code obj} is a {@code TopicPermission}, and has
 *         the same topic name and actions as this {@code TopicPermission}
 *         object; 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));
}
}
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}.
 */

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;
        }
    }
    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);
}

private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", Hashtable.class),
    new ObjectStreamField("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;

/**<p>
* 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.
* <p>
* [@author $Id: 2899bf825eb4b7708601d99fb39019087deddefb $]
*/
public class MonitorPermission extends Permission {

/**
 * 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 StringREAD = "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 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 permission 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 no value is 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.
 * 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.
 * For example, the following targets are valid:
 * @code com.mycomp.myapp/queue_length], {@code com.mycomp.myapp/*},
 * <code>com.mycomp.#42;/*</code>, <code>&#42;/queue*</code>,
 * <code>&#42;/queue*</code>,
 * The following targets are invalid: {@code *.myapp/queue_length},
 * {[@code com.*.myapp/*}, {[@code *},
 * 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.toLowerCase().startsWith(STARTJOB)) {
minJobInterval = 0;
int slen = STARTJOB.length();
if (action.length() != slen) {
if (action.charAt(slen) != ’:’)
throw new IllegalArgumentException("Invalid action " + action + ".");
}
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 ":

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}).
     */

public int hashCode() {
}

/**
 * Determines the equality of two MonitorPermission objects. Two 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 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: read, reset, publish, startjob, switchevents.
 * @return the allowed actions separated by commas, cannot be 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 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 Monitorable is not the same nor a subset
 * of the target set of Monitorable of this permission</li>
 * <li>the target set of StatusVariable is not the same nor a
 * subset of the target set of StatusVariable of this permission</li>
 * <ul>
 * @param p the permission to be checked
 * @return 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);
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1.695 pam 1.1.8-3.1

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 *
 * Authors:
 * Steve Grubb <sgrubb@redhat.com>
 *
 * PAM module that sets the login uid introduced in kernel 2.6.11
 */

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@c End:

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Version 3, 29 June 2007

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1.700 patch 2.7.5 :1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

------------------------------------------------------------------------------------------------------------------------
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/* pigz.c -- parallel implementation of gzip
 * Version 2.2.5 28 Jul 2012  Mark Adler
 */

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/* yarn.h -- generic interface for thread operations
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 * Version 1.3 13 Jan 2012  Mark Adler
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1.715 postgresql-jdbc 9.4.1207

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This is the Debian Linux prepackaged version of the /proc file system utilities.

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* Added atomicops for Solaris

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1.724 protos 2.3.0

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1.725 Pull API for parsing MIME messages - MIMEpull 1.6

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1.727 py4j 0.8.2.1

1.728 pyrolite 2.0.1

1.729 Python 3.4.1

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

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

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

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1.730 python 2.7.9 :r1.4
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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

<signature of Ty Coon>, 1 April 1989
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1.744 reflectasm 1.10.1

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1.745 reflections 0.9.9 :RC1

1.745.1 Available under license:
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1.746 relaxngDatatype 20020414

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1.747 retrofit 1.9.0
1.747.1 Available under license :
   Apache 2.0
   http://www.apache.org/licenses/LICENSE-2.0.txt

1.748 Rhino 1.5R4.1
1.748.1 Available under license :

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   */

   package org.mozilla.javascript.tools.shell;
import java.security.*;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.Hashtable;
import java.util.Enumeration;
import org.mozilla.javascript.*;
import org.mozilla.classfile.*;

public class JavaPolicySecurity extends SecurityProxy
{

    private static class Loader extends ClassLoader implements GeneratedClassLoader
    {
        private ProtectionDomain domain;

        Loader(ClassLoader parent, ProtectionDomain domain) {
            super(parent != null ? parent : getSystemClassLoader());
            this.domain = domain;
        }

        public Class defineClass(String name, byte[] data) {
            return super.defineClass(name, data, 0, data.length, domain);
        }

        public void linkClass(Class cl) {
            resolveClass(cl);
        }
    }

    private static class ContextPermissions extends PermissionCollection
    {
        // Construct PermissionCollection that permits an action only
        // if it is permitted by staticDomain and by security context of Java stack on
        // the moment of constructor invocation
        ContextPermissions(ProtectionDomain staticDomain) {
            _context = AccessController.getContext();
            if (staticDomain != null) {
                _staticPermissions = staticDomain.getPermissions();
            }
            setReadOnly();
        }

        public void add(Permission permission) {
            throw new RuntimeException("NOT IMPLEMENTED");
        }
    }
}
public boolean implies(Permission permission) {
    if (_statisPermissions != null) {
        if (!_statisPermissions.implies(permission)) {
            return false;
        }
    }
    try {
        _context.checkPermission(permission);
        return true;
    } catch (AccessControlException ex) {
        return false;
    }
}

public Enumeration elements() {
    return new Enumeration() {
        public boolean hasMoreElements() { return false; }
        public Object nextElement() { return null; }
    };
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append(getClass().getName());
    sb.append('@');
    sb.append(Integer.toHexString(System.identityHashCode(this)));
    sb.append(" (context=");
    sb.append(_context);
    sb.append(" , static_permissions=");
    sb.append(_statisPermissions);
    sb.append(')');
    return sb.toString();
}

AccessControlContext _context;
PermissionCollection _statisPermissions;
}

public JavaPolicySecurity() {
    // To trigger error on jdk-1.1 with lazy load
    new CodeSource(null, null);
}

protected void callProcessFileSecure(final Context cx, final Scriptable scope, final String filename)
{
    AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            URL url = getUrlObj(filename);
            ProtectionDomain staticDomain = getUrlDomain(url);
            Main.processFileSecure(cx, scope, url.toExternalForm(),
                staticDomain);
            return null;
        }
    });
}

private URL getUrlObj(String url) {
    URL urlObj;
    try {
        urlObj = new URL(url);
    } catch (MalformedURLException ex) {
        // Assume as Main.processFileSecure it is file, need to build its
        // URL
        String curDir = System.getProperty("user.dir");
        curDir = curDir.replace(\", ");
        if (!curDir.endsWith("/")) {
            curDir = curDir+"/";
        }
        try {
            URL curDirURL = new URL("file:"+curDir);
            urlObj = new URL(curDirURL, url);
        } catch (MalformedURLException ex2) {
            throw new RuntimeException("Can not construct file URL for "+url+":"
                +ex2.getMessage());
        }
    }
    return urlObj;
}

private ProtectionDomain getUrlDomain(URL url) {
    CodeSource cs = new CodeSource(url, null);
    PermissionCollection pc = Policy.getPolicy().getPermissions(cs);
    return new ProtectionDomain(cs, pc);
}

public GeneratedClassLoader
createClassLoader(ClassLoader parentLoader, Object securityDomain) {
    ProtectionDomain domain = (ProtectionDomain)securityDomain;
    return new Loader(parentLoader, domain);
}
public Object getDynamicSecurityDomain(Object securityDomain)  
{  
  ProtectionDomain staticDomain = (ProtectionDomain)securityDomain;  
  return getDynamicDomain(staticDomain);  
}

private ProtectionDomain getDynamicDomain(ProtectionDomain staticDomain) {  
  ContextPermissions p = new ContextPermissions(staticDomain);  
  ProtectionDomain contextDomain = new ProtectionDomain(null, p);  
  return contextDomain;  
}

public Object execWithDomain(final Context cx, final Scriptable scope,  
final Script script, Object securityDomain)  
throws JavaScriptException  
{  
  ProtectionDomain staticDomain = (ProtectionDomain)securityDomain;  
  // There is no direct way in Java to intersect permissions according  
  // stack context with additional domain.  
  // The following implementation first constructs ProtectionDomain  
  // that allows actions only allowed by both staticDomain and current  
  // stack context, and then constructs AccessController for this dynamic  
  // domain.  
  // If this is too slow, alternative solution would be to generate  
  // class per domain with a proxy method to call to infect  
  // java stack.  
  // Another optimization in case of scripts coming from "world" domain,  
  // that is having minimal default privileges is to construct  
  // one AccessControlContext based on ProtectionDomain  
  // with least possible privileges and simply call  
  // AccessController.doPrivileged with this untrusted context  

  ProtectionDomain dynamicDomain = getDynamicDomain(staticDomain);  
  ProtectionDomain[] tmp = { dynamicDomain };  
  AccessControlContext restricted = new AccessControlContext(tmp);

  PrivilegedExceptionAction action = new PrivilegedExceptionAction() {  
    public Object run() throws JavaScriptException {  
      return script.exec(cx, scope);  
    }  
  };

  try {  
    return AccessController.doPrivileged(action, restricted);  
  } catch (PrivilegedActionException ex) {  
    throw (JavaScriptException)(ex.getException());  
  }
}
import org.mozilla.javascript.*;

/**
 * An example WrapFactory that can be used to avoid wrapping of Java types
 * that can be converted to ECMA primitive values.
 * So java.lang.String is mapped to ECMA string, all java.lang.Numbers are
 * mapped to ECMA numbers, and java.lang.Booleans are mapped to ECMA booleans
 * instead of being wrapped as objects. Additionally java.lang.Characters are
 * converted to ECMA strings. Other types have the default behavior.
 *<p>
 * Note that calling "new java.lang.String('foo')" in JavaScript with this
 * wrap factory enabled will still produce a wrapped Java object since the
* WrapFactory.wrapNewObject method is not overridden.
* 
* The PrimitiveWrapFactory is enabled on a Context by calling setWrapFactory
* on that context.
*/

public class PrimitiveWrapFactory extends WrapFactory {

public Object wrap(Context cx, Scriptable scope, Object obj,
        Class staticType)
        {
            if (obj instanceof String || obj instanceof Number ||
                obj instanceof Boolean)
                {
                    return obj;
                } else if (obj instanceof Character) {
                    char[] a = { ((Character)obj).charValue() }; 
                    return new String(a);
                }
                return super.wrap(cx, scope, obj, staticType);
        }

/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
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package org.mozilla.javascript.optimizer;

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

import org.mozilla.javascript.Invoker;
import org.mozilla.javascript.Context;
import org.mozilla.javascript.GeneratedClassLoader;
import org.mozilla.classfile.ByteCode;
import org.mozilla.classfile.ClassFileWriter;

/**
 * Avoid cost of java.lang.reflect.Method.invoke() by compiling a class to
 * perform the method call directly.
 */
public class InvokerImpl extends Invoker {

    public Invoker createInvoker(Context cx, Method method, Class[] types) {

        Invoker result;
        int classNum;
        synchronized (this) {
            if (invokersCache == null) {
                invokersCache = new Hashtable();
                ClassLoader parentLoader = cx.getApplicationClassLoader();
                classLoader = cx.createClassLoader(parentLoader);
            } else {
                result = (Invoker)invokersCache.get(method);
                if (result != null) { return result; }
            }
            classNum = ++classNumber;
        }

        String className = "inv" + classNum;

        ClassFileWriter cfw = new ClassFileWriter(className, 
                "org.mozilla.javascript.Invoker", "");
        cfw.setFlags((short)(ClassFileWriter.ACC_PUBLIC | 
                ClassFileWriter.ACC_FINAL));
// Add our instantiator!
cfw.startMethod("<init>", "()V", ClassFileWriter.ACC_PUBLIC);
cfw.add(ByteCode.ALOAD_0);
cfw.add(ByteCode.INVOKESPECIAL,
    "org.mozilla.javascript.Invoker",
    "<init>", "()V");
cfw.add(ByteCode.RETURN);
cfw.stopMethod((short)1, null); // one argument -- this???

// Add the invoke() method call
cfw.startMethod("invoke",
    "(Ljava/lang/Object;[Ljava/lang/Object;)"+
    "Ljava/lang/Object;",
    (short)(ClassFileWriter.ACC_PUBLIC |
    ClassFileWriter.ACC_FINAL));

// If we return a primitive type, then do something special!
String declaringClassName = method.getDeclaringClass().getName
    ().replace(’.’, ’/’);
Class returnType = method.getReturnType();
String invokeSpecial = null;
String invokeSpecialType = null;
boolean returnsVoid = false;
boolean returnsBoolean = false;

if (returnType.isPrimitive()) {
    if (returnType == Boolean.TYPE) {
        returnsBoolean = true;
        invokeSpecialType = "(Z)";
    } else if (returnType == Void.TYPE) {
        returnsVoid = true;
        invokeSpecialType = "(V)";
    } else if (returnType == Integer.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Integer");
cfw.add(ByteCode.DUP);
        invokeSpecialType = "(I)";
    } else if (returnType == Long.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Long");
cfw.add(ByteCode.DUP);
        invokeSpecialType = "(J)";
    } else if (returnType == Short.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Short");
cfw.add(ByteCode.DUP);
        invokeSpecialType = "(S)";
    } else if (returnType == Float.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Float");
cfw.add(ByteCode.DUP);
        invokeSpecialType = "(F)";
    }
}
invokeSpecialType = "(F)";
} else if (returnType == Double.TYPE) {
    cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Double");
    cfw.add(ByteCode.DUP);
    invokeSpecialType = "(D)";
} else if (returnType == Byte.TYPE) {
    cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Byte");
    cfw.add(ByteCode.DUP);
    invokeSpecialType = "(B)";
} else if (returnType == Character.TYPE) {
    cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Character");
    cfw.add(ByteCode.DUP);
    invokeSpecialType = "(C)";
}

// handle setup of call to virtual function (if calling non-static)
if (!java.lang.reflect.Modifier.isStatic(method.getModifiers())) {
    cfw.add(ByteCode.ALOAD_1);
    cfw.add(ByteCode.CHECKCAST, declaringClassName);
}

// Handle parameters!
StringBuffer params = new StringBuffer(2 + ((types!=null)?(20 *
    types.length):0));
params.append('(');
if (types != null) {
    for(int i = 0; i < types.length; i++) {
        Class type = types[i];
        cfw.add(ByteCode.ALOAD_2);

        if (i <= 5) {
            cfw.add((byte) (ByteCode.ICONST_0 + i));
        } else if (i <= Byte.MAX_VALUE) {
            cfw.add(ByteCode.BIPUSH, i);
        } else if (i <= Short.MAX_VALUE) {
            cfw.add(ByteCode.SIPUSH, i);
        } else {
            cfw.addLoadConstant((int)i);
        }
    }
    cfw.add(ByteCode.AALOAD);

    if (type.isPrimitive()) {
        // Convert enclosed type back to primitive.
    }
}
if (type == Boolean.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Boolean");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Boolean",
            "booleanValue", "()", "Z");
    params.append('Z');
} else if (type == Integer.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
            "intValue", "()", "I");
    params.append('I');
} else if (type == Short.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
            "shortValue", "()", "S");
    params.append('S');
} else if (type == Character.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Character");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Character",
            "charValue", "()", "C");
    params.append('C');
} else if (type == Double.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
            "doubleValue", "()", "D");
    params.append('D');
} else if (type == Float.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
            "floatValue", "()", "F");
    params.append('F');
} else if (type == Byte.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Byte");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Byte",
            "byteValue", "()", "B");
    params.append('B');
}
}
} else {
    String typeName = type.getName().replace('.', '/');
    cfw.add(ByteCode.CHECKCAST, typeName);

    if (!type.isArray()) {
        params.append('L');
    }
    params.append(typeName);

    if (!type.isArray()) {
        params.append('L');
    }

    if (!type.isArray()) {
        params.append('L');
    }
}
params.append(');}
}
}

// Call actual function!
if (!java.lang.reflect.Modifier.isStatic(method.getModifiers())) {
    cfw.add(ByteCode.INVOKEVIRTUAL, declaringClassName,
            method.getName(), params.toString(),
            (invokeSpecialType!=null?invokeSpecialType.substring(1,2)
             :returnType.isArray()? returnType.getName().replace('.','/')
              :
              returnType.getName().replace(' ','').concat(";")));
} else {
    cfw.add(ByteCode.INVOKESTATIC, declaringClassName,
            method.getName(), params.toString(),
            (invokeSpecialType!=null?invokeSpecialType.substring(1,2)
             :returnType.isArray()? returnType.getName().replace('.','/')
              :
              returnType.getName().replace(' ','').concat(";")));
}

// Handle return value
if (returnsVoid) {
    cfw.add(ByteCode.ACONST_NULL);
    cfw.add(ByteCode.ARETURN);
} else if (returnsBoolean) {
    // HACK
    // check to see if true;
    // /'7' is the number of bytes of the ifeq<branch> plus getstatic<TRUE> plus areturn instructions
    cfw.add(ByteCode.IFEQ, 7);
    cfw.add(ByteCode.GETSTATIC,
            "java/lang/Boolean",
            "TRUE",
            "Ljava/lang/Boolean;");
    cfw.add(ByteCode.ARETURN);
    cfw.add(ByteCode.GETSTATIC,
            "java/lang/Boolean",
            "FALSE",
            "Ljava/lang/Boolean;");
    cfw.add(ByteCode.ARETURN);
} else if (invokeSpecial != null) {
    cfw.add(ByteCode.INVOKESPECIAL,
             invokeSpecial,
             "<init>", invokeSpecialType, "V");
}
cfw.add(ByteCode.ARETURN);
} else {
    cfw.add(ByteCode.ARETURN);
}

// three arguments, including the this pointer???
byte[] bytes = cfw.toByteArray();

// Add class to our classloader.
Class c = classLoader.defineClass(className, bytes);
classLoader.linkClass(c);
try {
    result = (Invoker)c.newInstance();
} catch (InstantiationException e) {
    throw new RuntimeException("unexpected " + e.toString());
} catch (IllegalAccessException e) {
    throw new RuntimeException("unexpected " + e.toString());
}

if (false) {
    System.out.println("Generated method delegate for: "+method.getName()
    + " on "+method.getDeclaringClass().getName()+" :: "+params.toString()+" :: "+types);
}
invokersCache.put(method, result);
return result;

public Object invoke(Object that, Object [] args) {
    return null;
}

int classNumber;
Hashtable invokersCache;
GeneratedClassLoader classLoader;
}
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*/

package org.mozilla.javascript.regexp;

import org.mozilla.javascript.*;

/**
 *
 */

public class RegExpImpl implements RegExpProxy {

    public RegExpImpl() {
        parens = new ObjArray();
    }

    public boolean isRegExp(Object obj) {
        return obj instanceof NativeRegExp;
    }

    public Object newRegExp(Context cx, Scriptable scope, String source,
                            String global, boolean flat)
    {
        return new NativeRegExp(cx, scope, source, global, flat);
    }

    public Object match(Context cx, Scriptable scope,
                         Scriptable thisObj, Object[] args)
    throws JavaScriptException
{  
  MatchData mdata = new MatchData();  
  mdata.optarg = 1;  
  mdata.mode = GlobData.GLOB_MATCH;  
  mdata.parent = ScriptableObject.getTopLevelScope(scope);  
  Object rval = matchOrReplace(cx, scope, thisObj, args,  
    this, mdata, false);  
  return mdata.arrayobj == null ? rval : mdata.arrayobj;  
}

public Object search(Context cx, Scriptable scope,  
  Scriptable thisObj, Object[] args)  
throws JavaScriptException  
{
  MatchData mdata = new MatchData();  
  mdata.optarg = 1;  
  mdata.mode = GlobData.GLOB_SEARCH;  
  mdata.parent = ScriptableObject.getTopLevelScope(scope);  
  return matchOrReplace(cx, scope, thisObj, args, this, mdata, false);  
}

public Object replace(Context cx, Scriptable scope,  
  Scriptable thisObj, Object[] args)  
throws JavaScriptException  
{
  Object arg1 = args.length < 2 ? Undefined.instance : args[1];  
  String repstr = null;  
  Function lambda = null;  
  if (arg1 instanceof Function) {
    lambda = (Function) arg1;
  } else {
    repstr = ScriptRuntime.toString(arg1);
  }

  ReplaceData rdata = new ReplaceData();  
  rdata.optarg = 2;  
  rdata.mode = GlobData.GLOB_REPLACE;  
  rdata.lambda = lambda;  
  rdata.repstr = repstr == null ? null : repstr.toCharArray();  
  rdata.dollar = repstr == null ? -1 : repstr.indexOf('$');  
  rdata.charArray = null;  
  rdata.length = 0;  
  rdata.index = 0;  
  rdata.leftIndex = 0;  
  Object val = matchOrReplace(cx, scope, thisObj, args,  
    this, rdata, true);  
  char[] charArray;
if (rdata.charArray == null) {
    if (rdata.global || val == null || !val.equals(Boolean.TRUE)) {
        /* Didn't match even once */
        return rdata.str;
    }

    int leftlen = this.leftContext.length;
    int length = leftlen + rdata.findReplen(cx, this);
    charArray = new char[length];
    SubString leftContext = this.leftContext;
    System.arraycopy(leftContext.charArray, leftContext.index,
        charArray, 0, leftlen);
    rdata.doReplace(cx, this, charArray, leftlen);
    rdata.charArray = charArray;
    rdata.length = length;
}

SubString rc = this.rightContext;
int rightlen = rc.length;
int length = rdata.length + rightlen;
charArray = new char[length];
System.arraycopy(rdata.charArray, 0,
    charArray, 0, rdata.charArray.length);
System.arraycopy(rc.charArray, rc.index, charArray,
    rdata.length, rightlen);
return new String(charArray, 0, length);
}

/**
 * Analog of C match_or_replace.
 */
private static Object matchOrReplace(Context cx, Scriptable scope,
    Scriptable thisObj, Object[] args,
    RegExpImpl reImpl,
    GlobData data, boolean forceFlat)
    throws JavaScriptException
{
    NativeRegExp re;

    String str = ScriptRuntime.toString(thisObj);
    data.str = str;
    Scriptable topScope = ScriptableObject.getTopLevelScope(scope);

    if (args.length == 0)
        re = new NativeRegExp(cx, topScope, "", ",", false);
    else
        if (args[0] instanceof NativeRegExp) {
            re = (NativeRegExp) args[0];
        } else {
            /* ...
        }
String src = ScriptRuntime.toString(args[0]);
String opt;
if (data.optarg < args.length) {
    args[0] = src;
    opt = ScriptRuntime.toString(args[data.optarg]);
} else {
    opt = null;
}
re = new NativeRegExp(cx, topScope, src, opt, forceFlat);
}
data.regexp = re;

data.global = (re.getFlags() & NativeRegExp.JSREG_GLOB) != 0;
int[] indexp = {0};
Object result = null;
if (data.mode == GlobData.GLOB_SEARCH) {
    result = re.executeRegExp(cx, scope, reImpl,
        str, indexp, NativeRegExp.TEST);
    if (result != null && result.equals(Boolean.TRUE))
        result = new Integer(reImpl.leftContext.length);
    else
        result = new Integer(-1);
} else if (data.global) {
    re.setLastIndex(0);
    for (int count = 0; indexp[0] <= str.length(); count++) {
        result = re.executeRegExp(cx, scope, reImpl,
            str, indexp, NativeRegExp.TEST);
        if (result == null || !result.equals(Boolean.TRUE))
            break;
        data.doGlobal(cx, scope, count, reImpl);
        if (reImpl.lastMatch.length == 0) {
        if (indexp[0] == str.length())
                break;
        indexp[0]++;
    }
}
} else {
    result = re.executeRegExp(cx, scope, reImpl, str, indexp,
        ((data.mode == GlobData.GLOB_REPLACE)
            ? NativeRegExp.TEST
            : NativeRegExp.MATCH));
}
return result;
public int find_split(Scriptable scope, String target, String separator,
        Object reObj, int[] ip, int[] matchlen,
        boolean[] matched, String[][] parensp)
{
    int i = ip[0];
    int length = target.length();
    int result;
    Context cx = Context.getCurrentContext();

    int version = cx.getLanguageVersion();
    NativeRegExp re = (NativeRegExp) reObj;
    again:
        while (true) {  // imitating C label
            /* JS1.2 deviated from Perl by never matching at end of string. */
            int ipsave = ip[0]; // reuse ip to save object creation
            ip[0] = i;
            Object ret = re.executeRegExp(cx, scope, this, target, ip,
                    NativeRegExp.TEST);
            if (ret != Boolean.TRUE) {
                // Mismatch: ensure our caller advances i past end of string.
                ip[0] = ipsave;
                matchlen[0] = 1;
                matched[0] = false;
                return length;
            }
            i = ip[0];
            ip[0] = ipsave;
            matched[0] = true;
            SubString sep = this.lastMatch;
            matchlen[0] = sep.length;
            if (matchlen[0] == 0) {
                /*
                 * Empty string match: never split on an empty
                 * match at the start of a find_split cycle. Same
                 * rule as for an empty global match in
                 * match_or_replace.
                 */
                if (i == ip[0]) {
                    /*
                     * "Bump-along" to avoid sticking at an empty
                     * match, but don't bump past end of string --
                     * our caller must do that by adding
                     * sep->length to our return value.
                     */
                    if (i == length) {
                        if (version == Context.VERSION_1_2) {
                            matchlen[0] = 1;
                        }
                    } else {
                        /*
                        * "Return to sender" to avoid infinite loop
                        */
                        i = length;
                    }
                }
            }
        }
}

SubString sep = this.lastMatch;
matchlen[0] = sep.length;
if (matchlen[0] == 0) {
    /*
     * Empty string match: never split on an empty
     * match at the start of a find_split cycle. Same
     * rule as for an empty global match in
     * match_or_replace.
     */
    if (i == ip[0]) {
        /*
         * "Bump-along" to avoid sticking at an empty
         * match, but don't bump past end of string --
         * our caller must do that by adding
         * sep->length to our return value.
         */
        if (i == length) {
            if (version == Context.VERSION_1_2) {
                matchlen[0] = 1;
            }
        }
    }
}
    result = i;
    }
    else
    result = -1;
    break;
    }
    i++;
    continue again; // imitating C goto
    }
    }
    // PR_ASSERT((size_t)i >= sep->length);
    result = i - matchlen[0];
    break;
    }
    int size = parens.size();
    parensp[0] = new String[size];
    for (int num = 0; num < size; num++) {
        SubString parsub = getParenSubString(num);
        parensp[0][num] = parsub.toString();
    }
    return result;
    }

/**
 * Analog of REGEXP_PAREN_SUBSTRING in C jsregexp.h.
 * Assumes zero-based; i.e., for $3, i==2
 */
SubString getParenSubString(int i) {
    if (i >= parens.size())
        return SubString.emptySubString;
    return (SubString) parens.get(i);
}

String          input;         /* input string to match (perl $_, GC root) */
boolean         multiline;     /* whether input contains newlines (perl $*) */
ObjArray        parens;        /* Vector of SubString; last set of parens
    matched (perl $1, $2) */
SubString       lastMatch;     /* last string matched (perl $&) */
SubString       lastParen;     /* last paren matched (perl $+) */
SubString       leftContext;   /* input to left of last match (perl $`) */
SubString       rightContext;  /* input to right of last match (perl $’) */
}

abstract class GlobData {
    static final int GLOB_MATCH =      1;
    static final int GLOB_REPLACE =    2;
    static final int GLOB_SEARCH =     3;
abstract void doGlobal(Context cx, Scriptable scope, int count,
        RegExpImpl reImpl)
    throws JavaScriptException;

byte   mode;   /* input: return index, match object, or void */
int    optarg; /* input: index of optional flags argument */
boolean global; /* output: whether regexp was global */
String  str;    /* output: 'this' parameter object as string */
NativeRegExp regexp; /* output: regexp parameter object private data */
    Scriptable parent;
}

class MatchData extends GlobData {

    /*
     * Analog of match_glob() in jsstr.c
     */
    void doGlobal(Context cx, Scriptable scope, int count, RegExpImpl reImpl)
        throws JavaScriptException
    {
        MatchData mdata;
        Object v;

        mdata = this;
        if (arrayobj == null) {
            Scriptable s = ScriptableObject.getTopLevelScope(scope);
            arrayobj = ScriptRuntime.newObject(cx, s, "Array", null);
        }
        SubString matchsub = reImpl.lastMatch;
        String matchstr = matchsub.toString();
        arrayobj.put(count, arrayobj, matchstr);
    }

    Scriptable arrayobj;
}

class ReplaceData extends GlobData {

    ReplaceData() {
        dollar = -1;
    }

    /*
     * Analog of replace_glob() in jsstr.c
     */
void doGlobal(Context cx, Scriptable scope, int count, RegExpImpl reImpl)  
   throws JavaScriptException
{
   ReplaceData rdata = this;

   SubString lc = reImpl.leftContext;

   char[] leftArray = lc.charArray;
   int leftIndex = rdata.leftIndex;

   int leftlen = reImpl.lastMatch.index - leftIndex;
   rdata.leftIndex = reImpl.lastMatch.index + reImpl.lastMatch.length;
   int replen = findReplen(cx, reImpl);
   int growth = leftlen + replen;
   char[] charArray;
   if (rdata.charArray != null) {
      charArray = new char[rdata.length + growth];
      System.arraycopy(rdata.charArray, 0, charArray, 0, rdata.length);
   } else {
      charArray = new char[growth];
   }

   rdata.charArray = charArray;
   rdata.length += growth;
   int index = rdata.index;
   rdata.index += growth;
   System.arraycopy(leftArray, leftIndex, charArray, index, leftlen);
   index += leftlen;
   doReplace(cx, reImpl, charArray, index);
}

static SubString dollarStr = new SubString("$");

static SubString interpretDollar(Context cx, RegExpImpl res,  
   char[] da, int dp, int bp, int[] skip)
{
   char[] ca;
   int cp;
   char dc;
   int num, tmp;

   /* Allow a real backslash (literal "\\") to escape "$1" etc. */
   if (da[dp] != '$')
      throw new RuntimeException();
   if ((cx.getLanguageVersion() != Context.VERSION_DEFAULT)  
      && (cx.getLanguageVersion() <= Context.VERSION_1_4))
   if (dp > bp && da[dp-1] == '\')
      return null;
if (dp+1 >= da.length)
    return null;
/* Interpret all Perl match-induced dollar variables. */
dc = da[dp+1];
if (NativeRegExp.isDigit(dc)) {
    if ((cx.getLanguageVersion() != Context.VERSION_DEFAULT) && (cx.getLanguageVersion() <= Context.VERSION_1_4)) {
        if (dc == '0')
            return null;
/* Check for overflow to avoid gobbling arbitrary decimal digits. */
        num = 0;
        ca = da;
        cp = dp;
        while (++cp < ca.length && NativeRegExp.isDigit(dc = ca[cp])) {
            tmp = 10 * num + NativeRegExp.unDigit(dc);
            if (tmp < num)
                break;
            num = tmp;
        }
    } else { /* ECMA 3, 1-9 or 01-99 */
        int parenCount = res.parens.size();
        num = NativeRegExp.unDigit(dc);
        if (num > parenCount)
            return null;
        cp = dp + 2;
        if ((dp + 2) < da.length) {
            dc = da[dp + 2];
            if (NativeRegExp.isDigit(dc)) {
                tmp = 10 * num + NativeRegExp.unDigit(dc);
                if (tmp <= parenCount) {
                    cp++:
                    num = tmp;
                }
            }
        }
        if (num == 0) return null; /* $0 or $00 is not valid */
    }
/* Adjust num from 1 $n-origin to 0 array-index-origin. */
    num--;
    skip[0] = cp - dp;
    return res.getParenSubString(num);
}
skip[0] = 2;
switch (dc) {
    case '$':
return dollarStr;
case '&':
    return res.lastMatch;
case '+':
    return res.lastParen;
case '"':
    if (cx.getLanguageVersion() == Context.VERSION_1_2) { /* JS1.2 imitated the Perl4 bug where left context at each step * in an iterative use of a global regexp started from last match, * not from the start of the target string. But Perl4 does start * $` at the beginning of the target string when it is used in a * substitution, so we emulate that special case here. */
        res.leftContext.index = 0;
        res.leftContext.length = res.lastMatch.index;
    }
    return res.leftContext;
case '\":
    return res.rightContext;
} return null;

/**
 * Corresponds to find_replen in jsstr.c. rdata is 'this', and
 * the result parameter sizep is the return value (errors are
 * propagated with exceptions).
 */
int findReplen(Context cx, RegExpImpl reImpl)
    throws JavaScriptException
{
    if (lambda != null) {
        // invoke lambda function with args lastMatch, $1, $2, ... $n,
        // leftContext.length, whole string.
        ObjArray parens = reImpl.parens;
        int parenCount = parens.size();
        Object[] args = new Object[parenCount + 3];
        args[0] = reImpl.lastMatch.toString();
        for (int i=0; i < parenCount; i++) {
            SubString sub = (SubString) parens.get(i);
            args[i+1] = sub.toString();
        }
        args[parenCount+1] = new Integer(reImpl.leftContext.length);
        args[parenCount+2] = str;
        Scriptable parent = lambda.getParentScope();
        Object result = lambda.call(cx, parent, parent, args);
    }
this.repstr = ScriptRuntime.toString(result).toCharArray();
return this.repstr.length;
}

int replen = this.repstr.length;
if (dollar == -1)
    return replen;

int bp = 0;
for (int dp = dollar; dp < this.repstr.length ;) {
    char c = this.repstr[dp];
    if (c != '$') {
        dp++;
        continue;
    }
    int[] skip = { 0 };
    SubString sub = interpretDollar(cx, reImpl, this.repstr, dp, bp, skip);
    if (sub != null) {
        replen += sub.length - skip[0];
        dp += skip[0];
    }
    else
        dp++;
return replen;
}

/**
 * Analog of do_replace in jsstr.c
 */
void doReplace(Context cx, RegExpImpl regExpImpl, char[] charArray, int arrayIndex)
{
    int cp = 0;
    char[] da = repstr;
    int dp = this.dollar;
    int bp = cp;
    if (dp != -1) {
        outer:
        for (; ; ) {
            int len = dp - cp;
            System.arraycopy(repstr, cp, charArray, arrayIndex, len);
            arrayIndex += len;
            cp = dp;
            int[] skip = { 0 };
            SubString sub = interpretDollar(cx, regExpImpl, da,
dp, bp, skip);
if (sub != null) {
    len = sub.length;
    if (len > 0) {
        System.arraycopy(sub.charArray, sub.index, charArray,
                        arrayIndex, len);
    }
    arrayIndex += len;
    cp += skip[0];
    dp += skip[0];
} else
    dp++;
if (dp >= repstr.length) break;
while (repstr[dp] != '$') {
    dp++;
    if (dp >= repstr.length) break outer;
}
}
}
if (repstr.length > cp) {
    System.arraycopy(repstr, cp, charArray, arrayIndex,
                     repstr.length - cp);
}
}

Function lambda;  /* replacement function object or null */
char[] repstr;  /* replacement string */
int dollar;  /* -1 or index of first $ in repstr */
char[] charArray;  /* result characters, null initially */
int length;  /* result length, 0 initially */
int index;  /* index in result of next replacement */
int leftIndex;  /* leftContext index, always 0 for JS1.2 */
}

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regparse.[ch]:
enc/ascii.c
enc/big5.c
enc/cp949.c
enc/emacs_mule.c
enc/encdb.c
enc/euc_jp.c
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enc/iso_8859_7.c
enc/iso_8859_8.c
enc/iso_8859_9.c
enc/koi8_r.c
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enc/shift_jis.c
enc/unicode.c
enc/us_ascii.c
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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Wakou Aoyama (wakou)
* committer
* He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

== B

Daniel Berger
* a patch for irb
* documentation
* He wrote forwardable.rb

David Black (dblack)
* committer
* He is the maintainer of scanf

Ken Bloom
* a patch for REXML.
Oliver M. Bolzer
* a patch for soap

Alexey Borzenkov
* a patch for mkmf.rb

Richard Brown
* a patch for configure.in

Dirkjan Bussink
* a patch for date.rb

Daniel Bovensiepen
* documentation
* a patch for irb

== C

Brian Candler
* a patch for configure.in, net/telnet

keith cascio
* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

Sean Chittenden
* patches for net/http, cgi

William D. Clinger
* ruby_strtod is based on his paper.

== D

Ryan Davis (ryan)
* committer
* He wrote and is the maintainer of miniunit

Guy Decoux (ts)
* committer

Zach Dennis
Martin Duerst (duerst)
* committer
* M17N

Paul Duncan
* pathces for rdoc

Alexander Dymo
* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)
* committer
* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

== F

Frank S.Fejes
* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

David Flanagan (davidflanagan)
* committer
* M17N

Takeyuki Fujioka (xibbar)
* committer
* He is the maintainer of cgi/*

FUKUMOTO, Atsushi
* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

Tadayoshi Funaba (tafd)
* committer
* He wrote and is the maintainer of
  * date
  * parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

David M. Gay
* ruby_strtod

Florian Gilcher
* documentation

GOTOU, Kentaro (gotoken)
* committer
* He wrote benchmark.rb
* He is the maintainer of:
  * benchmark.rb
  * open3

GOTOU, Yuuzou (gotoyuzo)
* committer

James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

Phil Hagelberg
* patch for ruby-mode.el's documentation.

Kirk Haines (wyhaines)
* committer
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

Eric Hodel (drbrain)
* committer
* He is the maintainer of:
  * rdoc
  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
* thwait.rb
* tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nbf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
  * He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
  * He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)
* committer
  * He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
* documentation
K.Kosako (kosako)
* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

== M

Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
  * net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regexp.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*
Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the "patch monster"
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)
NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation
The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb

Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
* committer
* He is the maintainer of win32ole
sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
* He wrote and is the maintainer of rss/*

David Symonds
* documentation

== T

TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
* ftools (1.8)
* tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer
Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
*a patch for net/pop
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source4/ldap_server/devdocs
lib/zlib/contrib/dotzlib/DotZLib.chm

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<one line to give the program's name and a brief idea of what it does.>
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Some code in testtools/run.py taken from Python's unittest module:
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

^

three errors found

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package scala.xml

/** This singleton object contains the `apply` and `unapplySeq` methods for
convenient construction and deconstruction. It is possible to deconstruct
* any `Node` instance (that is not a `SpecialNode` or a `Group`) using the
* syntax `case Elem(prefix, label, attribs, scope, child @ _*_ ) => ...`

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* @author Burak Emir <bqe@google.com>
*/

1.760 scala-library 2.10.4

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1.761 scala-logging_2.11 3.1.0

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1.779 Servlet Specification API 2.5-20081211

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1.780 servlet-api 2.3

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1.782 shadow 1:4.2-3

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 *
package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;
/**
 * MarkerFactory is a utility class producing {@link Marker} instances as appropriate for the logging system currently in use.
 *<p>
 * This class is essentially implemented as a wrapper around an { @link IMarkerFactory} instance bound at compile time.
 *<p>
 * Please note that all methods in this class are static.
 *
 * @author Ceki G&uuml;lc&uuml;
 */
 public class MarkerFactory {
  static IMarkerFactory markerFactory;

  private MarkerFactory() {
  }

  static {
    try {
      markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
    } catch (NoClassDefFoundError e) {
      markerFactory = new BasicMarkerFactory();
    }
    catch (Exception e) {
      // we should never get here
      Util.report("Unexpected failure while binding MarkerFactory", e);
    }
  }

  /**
   * Return a Marker instance as specified by the name parameter using the previously bound { @link IMarkerFactory} instance.
   *
   * @param name  
   * The name of the { @link Marker} object to return.
   * @return marker
   */
  public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
  }

  /**
   * Create a marker which is detached (even at birth) from the MarkerFactory.
   *
   * @param name the name of the marker
   * @return a dangling marker
   */
}
* @since 1.5.1
*/
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
* Return the [@link IMarkerFactory]instance in use.
*<p>The IMarkerFactory instance is usually bound with this class at compile time.
* @return the IMarkerFactory instance in use
*/
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

1.794 slf4j-api 1.7.16

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Spring Boot CLI

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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 [AspectInstanceFactory] that locates the aspect from the
 * [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
 * [getAspectInstance].
 */
public void setAspectBeanName(String aspectBeanName) {
    this.aspectBeanName = aspectBeanName;
}

@override
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 [BeanFactory] and returns it.
 * @see #setAspectBeanName
 */
@override
public Object getAspectInstance() {
    return this.beanFactory.getBean(this.aspectBeanName);
}

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

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

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 */

package org.springframework.aop.target;

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

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

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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 #getAspecInstance()} call.
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleAspectInstanceFactory implements AspectInstanceFactory {

    private final Class<?> aspectClass;

    public SimpleAspectInstanceFactory(Class<?> aspectClass) {
        Assert.notNull(aspectClass, "Aspect class must not be null");
        this.aspectClass = 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]).
 */
public final Class<?> getAspectClass() {
    return this.aspectClass;
}

@Override
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);
    }
}

@Override
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
 */
@Override
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].
 * @param aspectClass the aspect class
 */
protected int getOrderForAspectClass(Class<?> aspectClass) {
    return Ordered.LOWEST_PRECEDENCE;
}
package org.springframework.aop.aspectj.annotation;

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

/**
 * 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 SimpleMetadataAwareAspectInstanceFactory(Class<?> aspectClass, String aspectName) {
        super(aspectClass);
        this.metadata = new AspectMetadata(aspectClass, aspectName);
    }

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    */
@Override
public final AspectMetadata getAspectMetadata() {
    return this.metadata;
}

@Override
protected int getOrderForAspectClass(Class<?> aspectClass) {
    return OrderUtils.getOrder(aspectClass, Ordered.LOWEST_PRECEDENCE);
}

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.AspectJPrecedenceInformation;
import org.springframework.aop.aspectj.InstantiationModelAwarePointcutAdvisor;
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

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

class InstantiationModelAwarePointcutAdvisorImpl
implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {

private final AspectJExpressionPointcut declaredPointcut;

private Pointcut pointcut;

private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

private final Method method;

private final boolean lazy;

private final AspectJAdvisorFactory atAspectJAdvisorFactory;

private Advice instantiatedAdvice;

private int declarationOrder;

private String aspectName;

private Boolean isBeforeAdvice;

private Boolean isAfterAdvice;

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

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

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

    // Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
    // If it's not a dynamic pointcut, it may be optimized out
    // by the Spring AOP infrastructure after the first evaluation.
}
```java
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.
 */
@Override
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}
 * means here is that the aspect is not a SINGLETON.
 */
@Override
public boolean isPerInstance() {
    return (getAspectMetadata().getAjType().getPerClause().getKind() != PerClauseKind.SINGLETON);
}

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

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

@Override
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;
}

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

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

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

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

@Override
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.interceptor;

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

/**
 * Simple AOP Alliance [@code MethodInterceptor] that can be introduced
 * in a chain to display verbose trace information about intercepted method
 * invocations, with method entry and method exit info.
 *
 * &lt;p&gt;Consider using [@code CustomizableTraceInterceptor] for more
 * advanced needs.
 *
 * @author Dmitriy Kopylenko
 * @author Juergen Hoeller
 * @since 1.2
 * @see CustomizableTraceInterceptor
 */
@SuppressWarnings("serial")
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.interceptor;

import java.lang.reflect.Method;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
/**
 * A default {link AsyncUncaughtExceptionHandler} that simply logs the exception.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */
public class SimpleAsyncUncaughtExceptionHandler implements AsyncUncaughtExceptionHandler {

    private final Log logger = LogFactory.getLog(SimpleAsyncUncaughtExceptionHandler.class);

    @Override
    public void handleUncaughtException(Throwable ex, Method method, Object... params) {
        if (logger.isErrorEnabled()) {
            logger.error(String.format("Unexpected error occurred invoking async method '%s'.", method), ex);
        }
    }
}

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 */

package org.springframework.cglib.core;

/**
 * Custom extension of CGLIB's DefaultNamingPolicy, modifying
 * the tag in generated class names from "ByCGLIB" to "BySpringCGLIB".
 *<p>This is primarily designed to avoid clashes between a regular CGLIB
 * version (used by some other library) and Spring's embedded variant,
 * in case the same class happens to get proxied for different purposes.
 */

public class SpringNamingPolicy extends DefaultNamingPolicy {

    public static final SpringNamingPolicy INSTANCE = new SpringNamingPolicy();

    @Override
    protected String getTag() {
        return "BySpringCGLIB";
    }

}

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*/

package org.springframework.util.xml;

import javax.xml.transform.ErrorListener;
import javax.xml.transform.TransformerException;

import org.apache.commons.logging.Log;

/**
 * Simple {@code javax.xml.transform.ErrorListener} implementation:
 * logs warnings using the given Commons Logging logger instance,
 * and rethrows errors to discontinue the XML transformation.
 *
 * @author Juergen Hoeller
 * @since 1.2
 */
public class SimpleTransformErrorListener implements ErrorListener {

private final Log logger;

/**
 * Create a new SimpleTransformErrorListener for the given
 * Commons Logging logger instance.
 */
public SimpleTransformErrorListener(Log logger) {
    this.logger = logger;
}

@Override
public void warning(TransformerException ex) throws TransformerException {
    logger.warn("XSLT transformation warning", ex);
}

@Override
public void error(TransformerException ex) throws TransformerException {
    logger.error("XSLT transformation error", ex);
}
@Override
public void fatalError(TransformerException ex) throws TransformerException {
    throw ex;
}

package org.springframework.util.xml;

import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import javax.xml.XMLConstants;
import javax.xml.namespace.NamespaceContext;
import org.springframework.util.Assert;

/**
 * Simple {@code javax.xml.namespace.NamespaceContext} implementation. Follows the standard
 * @code NamespaceContext} contract, and is loadable via a @code java.util.Map} or
 * @code java.util.Properties} object
 * *
 * @author Arjen Poutsma
 * @since 3.0
 */
public class SimpleNamespaceContext implements NamespaceContext {

    private Map<String, String> prefixToNamespaceUri = new HashMap<String, String>();
    private Map<String, List<String>> namespaceUriToPrefixes = new HashMap<String, List<String>>();

    private Map<String, String> prefixToNamespaceUri = new HashMap<String, String>();
    private Map<String, List<String>> namespaceUriToPrefixes = new HashMap<String, List<String>>();
private String defaultNamespaceUri = "";

@Override
public String getNamespaceURI(String prefix) {
    Assert.notNull(prefix, "prefix is null");
    if (XMLConstants.XML_NS_PREFIX.equals(prefix)) {
        return XMLConstants.XML_NS_URI;
    }
    else if (XMLConstants.XMLNS_ATTRIBUTE.equals(prefix)) {
        return XMLConstants.XMLNS_ATTRIBUTE_NS_URI;
    }
    else if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
        return defaultNamespaceUri;
    }
    else if (prefixToNamespaceUri.containsKey(prefix)) {
        return prefixToNamespaceUri.get(prefix);
    }
    return "";
}

@Override
public String getPrefix(String namespaceUri) {
    List<?> prefixes = getPrefixesInternal(namespaceUri);
    return prefixes.isEmpty() ? null : (String) prefixes.get(0);
}

@Override
public Iterator<String> getPrefixes(String namespaceUri) {
    return getPrefixesInternal(namespaceUri).iterator();
}

/**
 * Sets the bindings for this namespace context. The supplied map must consist of string key value pairs.
 *
 * @param bindings the bindings
 */
public void setBindings(Map<String, String> bindings) {
    for (Map.Entry<String, String> entry : bindings.entrySet()) {
        bindNamespaceUri(entry.getKey(), entry.getValue());
    }
}

/**
 * Binds the given namespace as default namespace.
 *
 * @param namespaceUri the namespace uri
 */
public void bindDefaultNamespaceUri(String namespaceUri) {
    bindNamespaceUri(XMLConstants.DEFAULT_NS_PREFIX, namespaceUri);
}

/**
 * Binds the given prefix to the given namespace.
 *
 * @param prefix   the namespace prefix
 * @param namespaceUri the namespace uri
 */
public void bindNamespaceUri(String prefix, String namespaceUri) {
    Assert.notNull(prefix, "No prefix given");
    Assert.notNull(namespaceUri, "No namespaceUri given");
    if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
        defaultNamespaceUri = namespaceUri;
    } else {
        prefixToNamespaceUri.put(prefix, namespaceUri);
        getPrefixesInternal(namespaceUri).add(prefix);
    }
}

/** Removes all declared prefixes. */
public void clear() {
    prefixToNamespaceUri.clear();
}

/**
 * Returns all declared prefixes.
 *
 * @return the declared prefixes
 */
public Iterator<String> getBoundPrefixes() {
    return prefixToNamespaceUri.keySet().iterator();
}

private List<String> getPrefixesInternal(String namespaceUri) {
    if (defaultNamespaceUri.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.DEFAULT_NS_PREFIX);
    } else if (XMLConstants.XML_NS_URI.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.XML_NS_PREFIX);
    } else if (XMLConstants.XMLNS_ATTRIBUTE_NS_URI.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.XMLNS_ATTRIBUTE);
    } else {
        List<String> list = namespaceUriToPrefixes.get(namespaceUri);
        if (list != null) {
            return list;
        } else {
            return Collections.emptyList();
        }
    }
}

private void addDeclaredPrefix(String prefix, String prefixUri) {
    if (prefixToNamespaceUri.containsKey(prefix)) {
        return;
    }
    prefixToNamespaceUri.put(prefix, prefixUri);
    getPrefixesInternal(prefixUri).add(prefix);
}

private void removeDeclaredPrefix(String prefix, String prefixUri) {
    if (!prefixToNamespaceUri.containsKey(prefix)) {
        return;
    }
    prefixToNamespaceUri.remove(prefix);
    getPrefixesInternal(prefixUri).remove(prefix);
}

private void addDeclaredNamespaceUri(String namespaceUri) {
    if (!defaultNamespaceUri.equals(namespaceUri)) {
        return;
    }
    defaultNamespaceUri = namespaceUri;
    getPrefixesInternal(XMLConstants.XML_NS_URI).add(XMLConstants.XML_NS_PREFIX);
}

private void removeDeclaredNamespaceUri(String namespaceUri) {
    if (defaultNamespaceUri.equals(namespaceUri)) {
        return;
    }
    defaultNamespaceUri = null;
    getPrefixesInternal(XMLConstants.XML_NS_URI).remove(XMLConstants.XML_NS_PREFIX);
    getPrefixesInternal(XMLConstants.XMLNS_ATTRIBUTE_NS_URI).remove(XMLConstants.XMLNS_ATTRIBUTE);
}

private void addDeclaredNamespacePrefix(String prefix, String namespaceUri) {
    if (prefixToNamespaceUri.containsKey(prefix)) {
        return;
    }
    prefixToNamespaceUri.put(prefix, namespaceUri);
    getPrefixesInternal(namespaceUri).add(prefix);
}

private void removeDeclaredNamespacePrefix(String prefix, String namespaceUri) {
    if (!prefixToNamespaceUri.containsKey(prefix)) {
        return;
    }
    prefixToNamespaceUri.remove(prefix);
    getPrefixesInternal(namespaceUri).remove(prefix);
}

private void addDeclaredNamespace(String namespaceUri) {
    if (!defaultNamespaceUri.equals(namespaceUri)) {
        return;
    }
    defaultNamespaceUri = namespaceUri;
    getPrefixesInternal(XMLConstants.XML_NS_URI).add(XMLConstants.XML_NS_PREFIX);
    getPrefixesInternal(XMLConstants.XMLNS_ATTRIBUTE_NS_URI).add(XMLConstants.XMLNS_ATTRIBUTE);
}

private void removeDeclaredNamespace(String namespaceUri) {
    if (defaultNamespaceUri.equals(namespaceUri)) {
        return;
    }
    defaultNamespaceUri = null;
    getPrefixesInternal(XMLConstants.XML_NS_URI).remove(XMLConstants.XML_NS_PREFIX);
    getPrefixesInternal(XMLConstants.XMLNS_ATTRIBUTE_NS_URI).remove(XMLConstants.XMLNS_ATTRIBUTE);
}
if (list == null) {
    list = new ArrayList<String>();
    namespaceUriToPrefixes.put(namespaceUri, list);
}
return list;
}

/**
 * Removes the given prefix from this context.
 * @param prefix the prefix to be removed
 */
public void removeBinding(String prefix) {
    if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
        defaultNamespaceUri = "";
    } else {
        String namespaceUri = prefixToNamespaceUri.remove(prefix);
        List<String> prefixes = getPrefixesInternal(namespaceUri);
        prefixes.remove(prefix);
    }
}

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 */
package org.springframework.util.xml;

import org.apache.commons.logging.Log;
import org.xml.sax.ErrorHandler;
import org.xml.sax.SAXException;
import org.xml.sax.SAXParseException;

/*/
* Simple {@code org.xml.sax.ErrorHandler} implementation:
* logs warnings using the given Commons Logging logger instance,
* and rethrows errors to discontinue the XML transformation.
*
* @author Juergen Hoeller
* @since 1.2
*/
public class SimpleSaxErrorHandler implements ErrorHandler {

private final Log logger;

/**
 * Create a new SimpleSaxErrorHandler for the given
 * Commons Logging logger instance.
 */
public SimpleSaxErrorHandler(Log logger) {
    this.logger = logger;
}

@Override
public void warning(SAXParseException ex) throws SAXException {
    logger.warn("Ignored XML validation warning", ex);
}

@Override
public void error(SAXParseException ex) throws SAXException {
    throw ex;
}

@Override
public void fatalError(SAXParseException ex) throws SAXException {
    throw ex;
}
}

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*/
package org.springframework.core;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;
import org.springframework.util.StringValueResolver;
/**
* Simple implementation of the {@link AliasRegistry} interface.
* Serves as base class for
* {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}
* implementations.
*
* @author Juergen Hoeller
* @since 2.5.2
*/
public class SimpleAliasRegistry implements AliasRegistry {
/** Map from alias to canonical name */
private final Map<String, String> aliasMap = new ConcurrentHashMap<String, String>(16);

@Override
public void registerAlias(String name, String alias) {
Assert.hasText(name, "'name' must not be empty");
Assert.hasText(alias, "'alias' must not be empty");
if (alias.equals(name)) {
this.aliasMap.remove(alias);
}
else {
if (!allowAliasOverriding()) {
String registeredName = this.aliasMap.get(alias);
if (registeredName != null && !registeredName.equals(name)) {
throw new IllegalStateException("Cannot register alias '" + alias + "' for name '" +
name + "': It is already registered for name '" + registeredName + "'.");
}
}
checkForAliasCircle(name, alias);

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6903


this.aliasMap.put(alias, name);
}
}

/**
 * Return whether alias overriding is allowed.
 * Default is { @code true}.
 */
protected boolean allowAliasOverriding() {
    return true;
}

@override
public void removeAlias(String alias) {
    String name = this.aliasMap.remove(alias);
    if (name == null) {
        throw new IllegalStateException("No alias "+ alias + " registered");
    }
}

@override
public boolean isAlias(String name) {
    return this.aliasMap.containsKey(name);
}

@override
public String[] getAliases(String name) {
    List<String> result = new ArrayList<String>();
    synchronized (this.aliasMap) {
        retrieveAliases(name, result);
    }
    return StringUtils.toStringArray(result);
}

/**
 * Transitively retrieve all aliases for the given name.
 * @param name the target name to find aliases for
 * @param result the resulting aliases list
 */
private void retrieveAliases(String name, List<String> result) {
    for (Map.Entry<String, String> entry : this.aliasMap.entrySet()) {
        String registeredName = entry.getValue();
        if (registeredName.equals(name)) {
            String alias = entry.getKey();
            result.add(alias);
            retrieveAliases(alias, result);
        }
    }
}
public void resolveAliases(StringValueResolver valueResolver) {
    Assert.notNull(valueResolver, "StringValueResolver must not be null");
    synchronized (this.aliasMap) {
        Map<String, String> aliasCopy = new HashMap<String, String>(this.aliasMap);
        for (String alias : aliasCopy.keySet()) {
            String registeredName = aliasCopy.get(alias);
            String resolvedAlias = valueResolver.resolveStringValue(alias);
            String resolvedName = valueResolver.resolveStringValue(registeredName);
            if (resolvedAlias.equals(resolvedName)) {
                this.aliasMap.remove(alias);
            } else if (!resolvedAlias.equals(alias)) {
                String existingName = this.aliasMap.get(resolvedAlias);
                if (existingName != null && !existingName.equals(resolvedName)) {
                    throw new IllegalStateException(
                            "Cannot register resolved alias \" + resolvedAlias + \" (original: \" + alias + \") for name \" + resolvedName + \": It is already registered for name \" + registeredName + \".\"");
                }
                checkForAliasCircle(resolvedName, resolvedAlias);
                this.aliasMap.remove(alias);
                this.aliasMap.put(resolvedAlias, resolvedName);
            } else if (!registeredName.equals(resolvedName)) {
                this.aliasMap.put(alias, resolvedName);
            }
        }
    }
}

/**
 * Determine the raw name, resolving aliases to canonical names.
 * @param name the user-specified name
 * @return the transformed name
 */
public String canonicalName(String name) {
    String canonicalName = name;
    // Handle aliasing...
    String resolvedName;
do {
    resolvedName = this.aliasMap.get(canonicalName);
    if (resolvedName != null) {
        canonicalName = resolvedName;
    }
    }
while (resolvedName != null);
return canonicalName;
}

/**
 * Check whether the given name points back to given alias as an alias
 * in the other direction, catching a circular reference upfront and
 * throwing a corresponding IllegalArgumentException.
 * @param name the candidate name
 * @param alias the candidate alias
 * @see #registerAlias
 */
protected void checkForAliasCircle(String name, String alias) {
    if (alias.equals(canonicalName(name))) {
        throw new IllegalArgumentException("Cannot register alias "+ alias + " for name "+ name + ": Circular reference "+ name + " is a direct or indirect alias for "+ alias + " already");
    }
}

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1.952 spring-test-4.3.6.RELEASE.jar 4.3.6

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1.953 spring-tx 3.1.3.RELEASE

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>>> angular-resource 1.2.16
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2001-12-12

>>> xd-1.0

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>>> jquery 1.10.2

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1.975 Stax2 API 3.1.4

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/* Stax2 API extension for Streaming API for XML processing (StAX).
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1.978 stream 2.7.0

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 */

package com.clearspring.analytics.stream.cardinality;

import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.DataInput;
import java.io.DataInputStream;
import java.io.DataOutput;
import java.io.DataOutputStream;
import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.io.Serializable;

import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
import java.util.SortedMap;
import java.util.TreeMap;
import com.clearspring.analytics.hash.MurmurHash;
import com.clearspring.analytics.util.Bits;
import com.clearspring.analytics.util.IBuilder;
import com.clearspring.analytics.util.Varint;

/**
 * Implementation of HyperLogLog++ described in
 * <p/>
 * <p/>
 * <p/>
 * Brief HyperLogLog++ Overview
 * <p/>
 * Uses 64 bit hashing instead of 32
 * Has two representation modes: sparse and normal
 * 'normal' is approximately the same as regular hyperloglog (still uses 64 bits)
 * 'sparse' handles lower cardinality values with a highly accurate but poorly scaling
 * strategy and leverages data compression to compete with 'normal' for as long as possible
 * (sparse has the advantage on accuracy per unit of memory at low cardinality but quickly falls behind).
 */

public class HyperLogLogPlus implements ICardinality, Serializable {

private enum Format {
    SPARSE, NORMAL
}

/**
 * used to mark codec version for serialization
 */

private static final int VERSION = 2;

// threshold and bias data taken from google's bias correction data set:
static final double[][] biasData = {
   // precision 4
    [10, 9.717, 9.207, 8.7896, 8.2882, 7.8204, 7.3772, 6.9342, 6.5202, 6.161, 5.7722, 5.4636, 5.0396, 4.6766, 4.3566, 4.0454, 3.7936, 3.4856, 3.2666, 2.9946, 2.766, 2.4692, 2.3638, 2.0764, 1.7864, 1.7602, 1.4814, 1.433, 1.2926, 1.0664, 0.996000000000001, 0.7956, 0.5366, 0.589399999999998, 0.573799999999999, 0.269799999999996, 0.368200000000002, 0.0544000000000011, 0.23420000000000, 0.0108000000000033, -0.20340000000000, -0.070199999999998, -0.12960000000000, -0.364199999999997, -0.480600000000003, -
};

};
<table>
<thead>
<tr>
<th>Value</th>
<th>Value</th>
<th>Value</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>26.292, 25.5496000000001, 25.0234, 24.8206, 22.6146, 22.4188, 22.117, 20.6762, 20.6576, 19.7864, 19.509, 18.5334, 17.9204, 17.772, 16.2924, 16.8654, 15.1836, 15.745, 15.1316, 15.0386, 14.0136, 13.6342, 12.6196, 12.1866, 12.4281999999999, 11.3324, 10.4794000000001, 11.5038, 10.129, 9.5280000000002, 10.3203999999999, 9.4629999999999, 9.7928000000006, 9.1230000000005, 8.7418000000001, 9.2192, 7.5102000000005, 7.6065999999996, 7.0184000000004, 7.2239999999999, 7.4013999999997, 6.7617999999999, 7.1435999999999, 5.6506000000001, 5.6377999999997, 5.7659999999996, 6.7513999999999, 5.7575999999996, 3.7322000000003, 5.8048, 5.6301999999995, 4.9353999999996, 3.4379999999995, 3.8984000000005, 3.8196000000004, 3.3135999999995, 3.2308000000004, 3.4588, 3.0815999999998, 3.4076, 3.0693999999999, 2.3877999999997, 2.6190000000003, 1.9980000000005, 3.3482000000002, 2.9506000000001, 0.9909999999985, 2.1144000000005, 2.2029999999997, 2.8221999999999, 2.7323999999998, 2.7826, 2.7666000000004, 2.2648000000004, 2.3128000000004, 2.4081999999997, 2.7536000000001, 3.3375999999995, 2.7155999999999, 1.7478000000001, 1.4929000000004, 2.3930000000003, 2.227799999989, 2.3433999999997, 0.8725999999992, 3.8840000000001, 1.8060000000004, 1.917599999999, 1.1677999999994, 1.5032000000011, 2.5250000000009, 0.22640000000012, 2.3150000000005, 0.9300000000064, 1.2519999999996, 2.1495999999992, 0.04079999999992, 2.5447999999999, 1.3269000000003, 0.19740000000016, 2.2562000000002, 3.3327999999991, -1.3430000000007, 0.4221999999997, 0.9172000000009, 1.1292000000008, 1.46060000000011, 1.4577999999991, 2.8728000000001, 3.3335999999993, -1.3407999999994, 1.5768000000005, 0.3630000000056, 1.4074000000005, 0.65660000000026, 0.20140000000058, -0.45460000000028, 1.5191999999996,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

// precision 9

![Image](78EE117C99-156270743_OpenSourceUsedInStealthwatchFlowCollector6.9.2.png)
35.5276000000003, 33.1934000000001, 33.2371999999996, 33.3864000000003, 33.9228000000003,
30.2371999999996, 29.1373999999996, 25.2272000000003, 24.2942000000003, 19.8338000000003,
18.9005999999999, 23.0907999999999, 21.8544000000002, 19.5176000000001, 15.4147999999996,
16.9314000000004, 18.6737999999996, 12.9877999999999, 14.3688000000002, 12.0447999999997,
15.5219999999999, 12.5299999999997, 14.5940000000001, 14.3131999999996, 9.45499999999993,
12.9441999999999, 3.91139999999996, 13.1373999999996, 5.44720000000052, 9.82779999999912,
7.87279999999919, 3.67760000000089, 5.46980000000076, 5.55099999999948, 5.65979999999945,
3.89439999999922, 3.1275999999998, 5.65140000000065, 6.3062000000009, 3.90799999999945,
1.87060000000019, 5.17020000000048, 2.46680000000015, 0.770000000000437, -3.72340000000077,
1.16400000000067, 8.05340000000069, 0.135399999999208, 2.15940000000046, 0.766999999999825,
1.0594000000001, 3.15500000000065, -0.287399999999252, 2.37219999999979, -2.86620000000039, 1.63199999999961, -2.22979999999916, -0.15519999999924, -1.46039999999994, -0.262199999999211, 2.34460000000036, -2.8078000000005, -3.22179999999935, -5.60159999999996, -8.42200000000048, 9.43740000000071, 0.161799999999857, -10.4755999999998, -10.0823999999993,},
// precision 12
{2953, 2900.4782, 2848.3568, 2796.3666, 2745.324, 2694.9598, 2644.648, 2595.539, 2546.1474, 2498.2576,
2450.8376, 2403.6076, 2357.451, 2311.38, 2266.4104, 2221.5638, 2176.9676, 2134.193, 2090.838, 2048.8548,
2007.018, 1966.1742, 1925.4482, 1885.1294, 1846.4776, 1807.4044, 1768.8724, 1731.3732, 1693.4304, 1657.5326,
1621.949, 1586.5532, 1551.7256, 1517.6182, 1483.5186, 1450.4528, 1417.865, 1385.7164, 1352.6828, 1322.6708,
1291.8312, 1260.9036, 1231.476, 1201.8652, 1173.6718, 1145.757, 1119.2072, 1092.2828, 1065.0434, 1038.6264,
1014.3192, 988.5746, 965.0816, 940.1176, 917.9796, 894.5576, 871.1858, 849.9144, 827.1142, 805.0818,
783.9664, 763.9096, 742.0816, 724.3962, 706.3454, 688.018, 667.4214, 650.3106, 633.0686, 613.8094, 597.818,
581.4248, 563.834, 547.363, 531.5066, 520.455400000001, 505.583199999999, 488.366, 476.480799999999,
459.7682, 450.0522, 434.328799999999, 423.952799999999, 408.727000000001, 399.079400000001,
387.252200000001, 373.987999999999, 360.852000000001, 351.6394, 339.642, 330.902400000001,
322.661599999999, 311.662200000001, 301.3254, 291.7484, 279.939200000001, 276.7508, 263.215200000001,
254.811400000001, 245.5494, 242.306399999999, 234.8734, 223.787200000001, 217.7156, 212.0196, 200.793,
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142.837, 137.3724, 132.0162, 130.0424, 121.9804, 120.451800000001, 114.8968, 111.585999999999,
105.933199999999, 101.705, 98.5141999999996, 95.0488000000005, 89.7880000000005, 91.4750000000004,
83.7764000000006, 80.9698000000008, 72.8574000000008, 73.1615999999995, 67.5838000000003,
62.6263999999992, 63.2638000000006, 66.0977999999996, 52.0843999999997, 58.9956000000002,
47.0912000000008, 46.4956000000002, 48.4383999999991, 47.1082000000006, 43.2392, 37.2759999999998,
40.0283999999992, 35.1864000000005, 35.8595999999998, 32.0998, 28.027, 23.6694000000007,
33.8266000000003, 26.3736000000008, 27.2008000000005, 21.3245999999999, 26.4115999999995,
23.4521999999997, 19.5013999999992, 19.8513999999996, 10.7492000000002, 18.6424000000006,
13.1265999999996, 18.2436000000016, 6.71860000000015, 3.39459999999963, 6.33759999999893,
// precision 13
{5907.5052, 5802.2672, 5697.347, 5593.5794, 5491.2622, 5390.5514, 5290.3376, 5191.6952, 5093.5988,
4997.3552, 4902.5972, 4808.3082, 4715.5646, 4624.109, 4533.8216, 4444.4344, 4356.3802, 4269.2962, 4183.3784,
4098.292, 4014.79, 3932.4574, 3850.6036, 3771.2712, 3691.7708, 3615.099, 3538.1858, 3463.4746, 3388.8496,

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Open Source Used In Stealthwatch Flow Collector 6.9.2
7121


7123

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22674.2796, 22163.6336, 21656.515, 21161.7362, 20669.9368, 20189.4424, 19717.3358, 19256.3744, 18795.9638,
33470.5204, 32793.5742, 32127.0194, 31469.4182, 30817.6136, 30178.6968, 29546.8908, 28922.8544, 28312.2710,
47270, 46423.3584, 45585.7074, 44757.152, 43939.8146, 43130.9514, 42330.0396, 41540.4072, 40759.6348,
9988.206, 39226.5144, 38473.2056, 37729.795, 36997.2662, 36276.6468, 35558.6656, 34835.0248, 34157.4472,
33470.5204, 32793.5742, 32127.0194, 31469.4182, 30817.6136, 30178.6968, 29546.8908, 28922.8544, 28312.2710,
27707.0924, 27114.0326, 26526.692, 25948.6336, 25383.7826, 24823.5998, 24722.9794, 23732.2572, 23201.4976,
22674.2796, 22163.6336, 21656.515, 21161.7362, 20669.9368, 20189.4424, 19717.3358, 19256.3744, 18795.9638,
private Format format;
private RegisterSet registerSet;
private final int m;
private final int p;
private int sm;
private int sp;

private final double alphaMM;

private int sparseSetThreshold;
private int sortThreshold;

private int[] tmpSet;
private int tmpIndex = 0;
private int[] sparseSet;

/**
 * This constructor disables the sparse set. If the counter is likely to exceed
 * the sparse set thresholds than using this constructor will help avoid the
 * extra memory pressure created by maintaining the sparse set until that threshold is
 * breached.
 *
 * @param p - the precision value for the normal set
 */
public HyperLogLogPlus(int p) {
    this(p, 0);
}

/**
 * Basic constructor for creating a instance that supports sparse and normal
 * representations. The values of <code>p</code> and <code>sp</code> define the precision of the Normal and Sparse set
 * representations for the data structure. <code>p</code> must be a value
 * between 4 and <code>sp</code> and <code>sp</code> must be less than 32.
 *
 * @param p  - the precision value for the normal set
 * @param sp - the precision value for the sparse set
 */
public HyperLogLogPlus(int p, int sp) {
    this(p, sp, null, null);
}

/**
 * Constructor to support instances serialized with the legacy sparse
 * encoding scheme.
 *
 * @param p - the precision value for the normal set
 * @param sp - the precision value for the sparse set
 * @param deltaByteSet - a list of varint byte arrays encoded using a delta encoding scheme
 */
public HyperLogLogPlus(int p, int sp, int[] deltaByteSet) {
    this(p, sp, deltaByteSet, null);
}

/**
 * Constructor to support instances serialized with the legacy sparse
 * encoding scheme.
 *
 * @param p - the precision value for the normal set
 * @param sp - the precision value for the sparse set
 * @param deltaByteSet - a list of varint byte arrays encoded using a delta encoding scheme
 * @param deltaIntSet - a list of varint int arrays encoded using a delta encoding scheme
 */
public HyperLogLogPlus(int p, int sp, int[] deltaByteSet, int[] deltaIntSet) {
    this(p, sp, deltaByteSet, deltaIntSet);
}

public HyperLogLogPlus() {
    this(4);
}

public HyperLogLogPlus(int p, int sp, int[] deltaByteSet, int[] deltaIntSet) {
    this(p, sp, deltaByteSet, deltaIntSet);
}

/**
 * This constructor is used for back-compatible serialization.
 *
 * @param p            - the precision value for the normal set
 * @param sp           - the precision value for the sparse set
 * @param deltaByteSet - a list of varint byte arrays encoded using a delta encoding scheme
 */
public HyperLogLogPlus(int p, int sp, int[] deltaByteSet) {
    this(p, sp, deltaByteSet, null);
}

/**
 * This constructor is used for back-compatible serialization.
 *
 * @param p            - the precision value for the normal set
 * @param sp           - the precision value for the sparse set
 * @param deltaByteSet - a list of varint byte arrays encoded using a delta encoding scheme
 * @param deltaIntSet  - a list of varint int arrays encoded using a delta encoding scheme
 */
public HyperLogLogPlus(int p, int sp, int[] deltaByteSet, int[] deltaIntSet) {
public HyperLogLogPlus(int p, int sp, List<byte[]> deltaByteSet) {
    this(p, sp);
    sparseSet = new int[deltaByteSet.size()];
    int previousValue = 0;
    for (int i = 0; i < deltaByteSet.size(); i++) {
        int nextValue = Varint.readUnsignedVarInt(deltaByteSet.get(i));
        sparseSet[i] = nextValue + previousValue;
        previousValue = sparseSet[i];
    }
}

// for constructing a sparse hllp
private HyperLogLogPlus(int p, int sp, int[] sparseSet) {
    this(p, sp, sparseSet, null);
}

// for constructing a normal mode hllp
private HyperLogLogPlus(int p, int sp, RegisterSet registerSet) {
    this(p, sp, null, registerSet);
}

private HyperLogLogPlus(int p, int sp, int[] sparseSet, RegisterSet registerSet) {
    if (p < 4 || (p > sp && sp != 0)) {
        throw new IllegalArgumentException("p must be between 4 and sp (inclusive)");
    }
    if (sp > 32) {
        throw new IllegalArgumentException("sp values greater than 32 not supported");
    }
    this.p = p;
    m = (int) Math.pow(2, p);
    format = Format.NORMAL;
    this.registerSet = registerSet;
    if (registerSet == null) {
        if (sp > 0) // Use sparse representation
        {
            format = Format.SPARSE;
            this.sp = sp;
            sm = (int) Math.pow(2, sp);
            this.sparseSet = sparseSet;
            sparseSetThreshold = (int) (m * 0.75);
            sortThreshold = sparseSetThreshold / 4;
        } else {
            this.registerSet = new RegisterSet((int) Math.pow(2, p));
        }
    }
this.alphaMM = HyperLogLog.getAlphaMM(p, m);
}

@Override
public boolean offerHashed(long hashedLong) {
    switch (format) {
    case NORMAL:
        // find first p bits of x
        final long idx = hashedLong >>> (64 - p);
        // Ignore the first p bits (the idx), and then find the number of leading zeros
        // Push a 1 to where the bit string would have ended if we didn't just push the idx out of the way
        // A one is always added to runLength for estimation calculation purposes
        final int runLength = Long.numberOfLeadingZeros((hashedLong << this.p) | (1 << (this.p - 1))) + 1;
        return registerSet.updateIfGreater((int) idx, runLength);
    case SPARSE:
        // Call the sparse encoding scheme which attempts to stuff as much helpful data into 32 bits as possible
        int k = encodeHash(hashedLong, p, sp);
        if (tmpSet == null) {
            tmpSet = new int[sortThreshold + 1];
        }
        // Put the encoded data into the temp set
        tmpSet[tmpIndex++] = k;
        if (sparseSet != null && sparseSet.length > sparseSetThreshold) {
            mergeTempList();
            convertToNormal();
        } else if (tmpIndex > sortThreshold) {
            mergeTempList();
        }
        return true;
    return false;
}

@override
public boolean offerHashed(int hashedInt) {
    throw new UnsupportedOperationException();
}

/**
 * Add data to estimator based on the mode it is in
 *
 * @param o stream element
 * @return Will almost always return true for sparse mode because the additions are batched in
 */
@override
public boolean offer(Object o) {
    long x = MurmurHash.hash64(o);
    return offerHashed(x);
}
/**
 * Converts the mode of this estimator from 'sparse' to 'normal'.
 * Each member of the set has its longer 'sparse precision (sp)' length idx
 * truncated to length p and the associated run length is placed into a register.
 * Collisions are resolved by merely taking the max.
 */

private void convertToNormal() {
    mergeTempList();
    this.registerSet = new RegisterSet((int) Math.pow(2, p));
    for (int k : sparseSet) {
        int idx = getIndex(k, p);
        int r = decodeRunLength(k);
        registerSet.updateIfGreater(idx, r);
    }
    format = Format.NORMAL;
    tmpSet = null;
    sparseSet = null;
}

/**
 * Encode the sp length idx and, if necessary, the run length.
 * Start with the 64 bit hash as x.
 * Find all the bits that belong in the first sp (roughly 25) bits. (This is idx')
 * Get rid of the first p (roughly 18) bits of those. (Those were idx (not prime))
 * If all the remaining bits are zero then we are going to need to find and encode the
 * full run length of leading zeros, but this only happens once in 2 ^ (sp - p) or roughly
 * 2 ^ 7 times.
 * If at least one of them is not zero, then since the run length is determined by bits
 * after p and the idx' contains the first (sp - p) bits of those, then just by putting idx'
 * in the encoding, we will also be giving it all the information it needs to find the run length.
 * The relationship looks like this:
 * | p bits = idx || look for leading zeros here |
 * | | sp bits = idx' |
 * | | all 0s? |
 * If we have idx', we could theoretically scan it (as per zeroTest) when unencoding and therefore know whether
 * to look for the extra run length information. However, for now we have followed the authors of
* the paper and put this information in a flag bit at the end of the encoding.
* <p/>
* Based on this flag, we know whether to adjust for the missing run length bits. We could also
* use this flag to compress all the zeros in "all 0s?", but saving a byte or so once in 128
* times is less than the 120 bits spent on the flag elsewhere. Of course, after compression, the losses
* are not quite so large either way.
* <p/>
* The encoding scheme now looks like:
* <p/>
* **************************** <- smaller length of bits (half, but not to scale)
* | empty || sp bits ||[F]
* | p bits || has 1 ||[0]
* <p/>
* <p/>
* or if the run length was needed (ie 'all 0s?' was indeed all 0s):
* <p/>
* ****************************
* |      sp bits    || run len ||[F]
* |  p bits ||  0s  |           |1|
* <p/>
* <p/>
* The other notable encoding feature is the inversion of the run length, which just lets the lists
* be sorted in a convenient way. (Could alternatively sort in reverse, and use descending deltas).
* @param x the hash bits
* @param p the 'normal' mode precision
* @param sp the 'sparse' mode precision
* @return the encoded data as an integer
*/
private int encodeHash(long x, int p, int sp) {
    //Get the idx' (the first sp bits) by pushing the rest to the right (into oblivion :>D)
    int idx = (int) (x >>> (64 - sp));
    //Push to the left for all the spaces you know are between the start of your bits and the left 'wall'
    //then push p bits off as well so we have just our friend "all 0s?"
    int zeroTest = 0;
    if (p < sp) {
        zeroTest = idx << ((32 - sp) + p);
    }
    if (zeroTest == 0) {
        //See offer
        final int runLength = Long.numberOfLeadingZeros((x << this.p) | (1 << (this.p - 1))) + 1;
        //Invert run length by xorring it with a bunch of 1s
        int invrl = runLength ^ 63;
        return (((idx
            << 6)       //push the idx left 6 times to make room to put in the run length
            | invrl)    //then merge in the run length
            << 1)       //move left again to make room for the flag bit
            | 1;        //merge in the flag bit (set to one because we needed the run length)
} else {
    // Just push left once. A zero will appear by default and that's the flag we want.
    return idx << 1;
}
}

/**
 * More of less the opposite of the encoding function but just for getting out run lengths.
 *
 * @param k encoded int
 * @return run length
 */
private int decodeRunLength(int k) {
    if ((k & 1) == 1) // checking the flag bit
        {
            // Smoosh the flag bit; it has served its purpose
            // Then & with 63 to delete everything but the run length
            // Then invert again to undo the inversion from before
            return ((k >>> 1) & 63) ^ 63;
        } else {
            // In one of the encode diagrams there is a substring of bits
            // labeled 'has 1'. This is where we find that one!

            // First push left to clear out the empty space (that is 31-sp places)
            // Then push left some more cause bits in precision p don't count for run length
            // That is, push left p times.
            // Lastly we add one because we love adding one to run lengths. Its our JAM
            return Integer.numberOfLeadingZeros(k << p + (31 - sp)) + 1;
        }
}

/**
 * returns the hash portion of the of the integer value
 *
 * @param k - the encoded integer to extract the hash from
 * @return the encoded hash value
 */
private int getEncodedHash(int k) {
    return (k << p + (31 - sp));
}

/**
 * Get the idx' from an encoding
 *
 * @param k encoded data
 * @return idx'
 */
private static int getSparseIndex(int k) {

if ((k & 1) == 1) {
    return k >>> 7;
} else {
    return k >>> 1;
}
}

/**
 * Gets the idx from an encoding (note this is idx and not idx prime)
 *
 * @param k encoded data
 * @param p 'normal' precision
 * @return
 */
private int getIndex(int k, int p) {
    k = getSparseIndex(k);
    return (k >>> (sp - p));
}

/**
 * Gather the cardinality estimate from this estimator.
 *
 * <p/>
 * Has two procedures based on current mode. 'Normal' mode works similar to HLL but has some
 * new bias corrections. 'Sparse' mode is linear counting.
 *
 * @return
 */
@override
cardinality() {
switch (format) {
case NORMAL:
    double registerSum = 0;
    int count = registerSet.count;
    double zeros = 0;
    for (int j = 0; j < registerSet.count; j++) {
        int val = registerSet.get(j);
        registerSum += 1.0 / (1 << val);
        if (val == 0) {
            zeros++;
        }
    }

double estimate = alphaMM * (1 / registerSum);
    double estimatePrime = estimate;
    if (estimate <= (5 * m)) {
        estimatePrime = estimate - getEstimateBias(estimate, p);
    }

double H:
if (zeros > 0) {
    H = HyperLogLog.linearCounting(count, zeros);
} else {
    H = estimatePrime;
}

// when p is large the threshold is just 5*m
if ((p <= 18 && H < thresholdData[p - 4]) || (p > 18 && estimate <= 5 * m)) {
    return Math.round(H);
} else {
    return Math.round(estimatePrime);
}

private static double getEstimateBias(double estimate, int p) {
    // get nearest neighbors for this estimate and precision
    // above p = 18 there is no bias correction
    if (p > 18) {
        return 0;
    }
    double[] estimateVector = rawEstimateData[p - 4];
    SortedMap<Double, Integer> estimateDistances = calcDistances(estimate, estimateVector);
    int[] nearestNeighbors = getNearestNeighbors(estimateDistances);
    return getBias(nearestNeighbors, p);
}

private static double getBias(int[] nearestNeighbors, int p) {
    double[] biasVector = biasData[p - 4];
    double biasTotal = 0.0d;
    for (int nearestNeighbor : nearestNeighbors) {
        biasTotal += biasVector[nearestNeighbor];
    }
    return biasTotal / (nearestNeighbors.length);
}

private static int[] getNearestNeighbors(SortedMap<Double, Integer> distanceMap) {
    int[] nearest = new int[6];
    int i = 0;
    for (Integer index : distanceMap.values()) {
        nearest[i++] = index;
        if (i >= 6) {
            break;
        }
    }
    return nearest;
}
private static SortedMap<Double, Integer> calcDistances(double estimate, double[] estimateVector) {
    SortedMap<Double, Integer> distances = new TreeMap<Double, Integer>();
    int index = 0;
    for (double anEstimateVector : estimateVector) {
        distances.put(Math.pow(estimate - anEstimateVector, 2), index++);
    }
    return distances;
}

/**
 * Batch merges the sparse set with the temporary list. Usually called when the temporary
 * list fills up, but may also be needed when suddenly converting to normal or producing a
 * cardinality estimate.
 * <p/>
 * It works very similarly to the merge part of merge sort with some key differences:
 * We don't care about the kind of order the idxs appear in, only that they are in SOME order.
 * This is because we only need to be sure that we detect when they are the same. So if idx: '001' appears
 * first and idx: '002' appears last, that is fine as long as that behavior is the same for both lists.
 * <p/>
 * We do not allow duplicate entries (we are making a set after all), and collisions are resolved by run
 * length. However, most of the time the run length will be the same if two idx' are the same. Only in the
 * 1 in ~128 chance case of 'all 0s?' will they differ. Because the rest of the encoding is the same we can
 * do comparisons without extracting the run length and because of our earlier inversion trick, the highest
 * run length duplicates will appear first. So we take those and ignore any that follow with the same idx'.
 *
 * @param set sparse set
 * @param tmp list to be merged
 * @return the new sparse set
 */
private static int[] merge(int[] set, int[] tmp) {
    List<Integer> newSet = new ArrayList<Integer>();
    // iterate over each set and merge the result values

    int setLength = (set == null ? 0 : set.length);
    int seti = 0;
    int tmpi = 0;
    while (seti < setLength || tmpi < tmp.length) {
        if (seti >= setLength) {
            int tmpVal = tmp[tmpi];
            newSet.add(tmpVal);
            tmpi++;
            tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
        } else if (tmpi >= tmp.length) {
            newSet.add(set[seti++]);
        } else {
            return nearest;
        }
    }
    return nearest;
}
int setVal = set[seti];
int tmpVal = tmp[tmpi];

if (getSparseIndex(setVal) == getSparseIndex(tmpVal)) {
    newSet.add(Math.min(setVal, tmpVal));
    tmpi++;
    tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
    seti++;
} else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
    newSet.add(setVal);
    seti++;
} else {
    newSet.add(tmpVal);
    tmpi++;
    tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
}
}
return toIntArray(newSet);

private static int[] toIntArray(List<Integer> list) {
    int[] ret = new int[list.size()];
    for (int i = 0; i < ret.length; i++) {
        ret[i] = list.get(i);
    }
    return ret;
}

/**
 * Eats up the inferior duplicates from the temp list
 *
 * @param tmp    tmp list
 * @param tmpIdx the idx' we want to consume
 * @param tmpi   the current tmp list index
 * @return the new tmp list index
 */
private static int consumeDuplicates(int[] tmp, int tmpIdx, int tmpi) {
    while (tmpi < tmp.length) {
        int nextTmp = tmp[tmpi];
        int nextTmpIdx = getSparseIndex(nextTmp);
        if (tmpIdx != nextTmpIdx) {
            return tmpi;
        }
        tmpi++;
    }
    return tmpi;
}
/**
 * Merge this HLL++ instance with another! The power of friends!
 * <p/>
 * This works very similarly to the merge with temp list function.
 * <p/>
 * However, in this case, both lists will need their own delta decoding and neither will
 * have to worry about consuming duplicates.
 * 
 * @param other
 * @return the new sparse set
 */

private int[] mergeEstimators(HyperLogLogPlus other) {
    other.mergeTempList();
    int[] tmp = other.getSparseSet();
    mergeTempList();
    int[] set = sparseSet;

    List<Integer> newSet = new ArrayList<Integer>();

    // iterate over each set and merge the result values

    int seti = 0;
    int tmpi = 0;
    while (seti < set.length || tmpi < tmp.length) {
        if (seti >= set.length) {
            newSet.add(tmp[tmpi++]);
        } else if (tmpi >= tmp.length) {
            newSet.add(set[seti++]);
        } else {
            int setVal = set[seti];
            int tmpVal = tmp[tmpi];
            if (getSparseIndex(setVal) == getSparseIndex(tmpVal)) {
                newSet.add(Math.min(setVal, tmpVal));
                tmpi++;
                seti++;
            } else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
                newSet.add(setVal);
                seti++;
            } else {
                newSet.add(tmpVal);
                tmpi++;
            }
        }
    }

    return toIntArray(newSet);
}
```java
@Override
public int sizeof() {
    if (registerSet == null) {
        return 4 * RegisterSet.getSizeForCount((int) Math.pow(2, p));
    }
    return registerSet.size * 4;
}

@Override
public byte[] getBytes() throws IOException {
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    DataOutputStream dos = new DataOutputStream(baos);
    // write version flag (always negative)
    dos.writeInt(-VERSION);
    Varint.writeUnsignedVarInt(p, dos);
    Varint.writeUnsignedVarInt(sp, dos);
    switch (format) {
        case NORMAL:
            Varint.writeUnsignedVarInt(0, dos);
            Varint.writeUnsignedVarInt(registerSet.size * 4, dos);
            for (int x : registerSet.readOnlyBits()) {
                dos.writeInt(x);
            }
            break;
        case SPARSE:
            Varint.writeUnsignedVarInt(1, dos);
            mergeTempList();
            Varint.writeUnsignedVarInt(sparseSet.length, dos);
            int prevMergedDelta = 0;
            for (int k : sparseSet) {
                Varint.writeUnsignedVarInt(k - prevMergedDelta, dos);
                prevMergedDelta = k;
            }
            break;
    }
    return baos.toByteArray();
}

private void writeBytes(DataOutput serializedByteStream) throws IOException {
    serializedByteStream.write(getBytes());
}

/**
 * Script-esque function that handles preparing to and executing merging the sparse set
 * and the temp list.
 * <p/>
 */
```
* Set up the delta encoding, sort the temp list, merge the lists, blow up the temp list.
* <p/>
* Exposed for testing purposes
*/
protected void mergeTempList() {
    int[] retSet = sparseSet;
    if (tmpIndex > 0) {
        int[] sortedSet = sortEncodedSet(tmpSet, tmpIndex);
        retSet = merge(sparseSet, sortedSet);
        tmpIndex = 0;
    }
    sparseSet = retSet == null ? new int[0] : retSet;
}

// exposed for testing
int[] sortEncodedSet(int[] encodedSet, int validIndex) {
    List<Integer> sortedList = new ArrayList<Integer>(validIndex);
    for (int i = 0; i < validIndex; i++) {
        int k = encodedSet[i];
        sortedList.add(k);
    }
    Collections.sort(sortedList, new Comparator<Integer>() {
        @Override
        public int compare(Integer left, Integer right) {
            if (left.equals(right)) {
                return 0;
            }
            int leftIndex = getSparseIndex(left);
            int rightIndex = getSparseIndex(right);
            if (leftIndex < rightIndex) {
                return -1;
            } else if (rightIndex < leftIndex) {
                return 1;
            }
            int leftHash = getEncodedHash(left);
            int rightHash = getEncodedHash(right);
            if (leftHash < rightHash) {
                return -1;
            } else if (rightHash < leftHash) {
                return 1;
            }
            return 0;
        }
    });
    return toIntArray(sortedList);
}
/**
 * Add all the elements of the other set to this set.
 * <p/>
 * If possible, the sparse mode is protected. A switch to the normal mode
 * is triggered only if the resulting set exceed the threshold.
 * <p/>
 * This operation does not imply a loss of precision.
 * 
 * @param other A compatible Hyperloglog++ instance (same p and sp)
 * @throws CardinalityMergeException if other is not compatible
 */

public void addAll(HyperLogLogPlus other) throws HyperLogLogPlusMergeException {
    if (other.sizeof() != sizeof()) {
        throw new HyperLogLogPlusMergeException("Cannot merge estimators of different sizes");
    }

    if (format == Format.NORMAL && other.format == Format.NORMAL) {
        registerSet.merge(other.registerSet);
        return;
    }

    if (format == Format.SPARSE && other.format == Format.SPARSE) {
        sparseSet = mergeEstimators(other);
        // Convert to normal mode if needed.
        // Since offer trigger the switch to the normal mode on only when
        // the tmpSet is full and the threshold is reached, we follow the same
        // behavior here to ease testing
        if (sparseSet.length > sparseSetThreshold + sortThreshold) {
            convertToNormal();
        }
        return;
    }

    if (format == Format.SPARSE && other.format == Format.NORMAL) {
        convertToNormal();
        registerSet.merge(other.registerSet);
        return;
    }

    if (format == Format.NORMAL && other.format == Format.SPARSE) {
        // Iterating over other's sparse set and updating only required indexes
        // of this' register set is several orders of magnitude faster than copying
        // and converting other to normal mode. This use case is quite common since
        // we tend to aggregate small sets to large sets.
        other.mergeTempList();
        for (int i = 0; i < other.sparseSet.length; i++) {
            int k = other.sparseSet[i];
            int idx = other.getIndex(k, p);
int r = other.decodeRunLength(k);
    registerSet.updateIfGreater(idx, r);
    return;
}

throw new IllegalStateException("Unhandled HLL++ merge combination");
}

/**
 * Merge this HLL++ with a bunch of others! The power of minions!
 * <p/>
 * Most of the logic consists of case analysis about the state of this HLL++ and each one it wants to merge
 * with. If either of them is 'normal' mode then the other converts to 'normal' as well. A touching sacrifice.
 * 'Normal's combine just like regular HLL estimators do.
 * <p/>
 * If they happen to be both sparse, then it checks if their combined size would be too large and if so, they get
 * relegated to normal mode anyway. Otherwise, the mergeEstimators function is called, and a new sparse HLL++
 * is born.
 * <p/>
 * @param estimators the estimators to merge with this one
 * @return a new estimator with their combined knowledge
 * @throws CardinalityMergeException
 */

@Override
public ICardinality merge(ICardinality... estimators) throws CardinalityMergeException {
    HyperLogLogPlus merged = new HyperLogLogPlus(p, sp);
    merged.addAll(this);

    if (estimators == null) {
        return merged;
    }

    for (ICardinality estimator : estimators) {
        if (!(estimator instanceof HyperLogLogPlus)) {
            throw new HyperLogLogPlusMergeException("Cannot merge estimators of different class");
        }
        HyperLogLogPlus hll = (HyperLogLogPlus) estimator;
        merged.addAll(hll);
    }

    return merged;
}

/**
 * exposed for testing
 */
protected RegisterSet getRegisterSet() {
    return registerSet;
}

/**
 * exposed for testing
 */
protected int[] getSparseSet() {
    return sparseSet;
}

public static class Builder implements IBuilder<ICardinality>, Serializable {

    private final int p;
    private final int sp;

    public Builder(int p, int sp) {
        this.p = p;
        this.sp = sp;
    }

    @Override
    public HyperLogLogPlus build() {
        return new HyperLogLogPlus(p, sp);
    }

    @Override
    public int sizeof() {
        int k = (int) Math.pow(2, p);
        return RegisterSet.getBits(k) * 5;
    }

    public static HyperLogLogPlus build(byte[] bytes) throws IOException {
        ByteArrayInputStream bais = new ByteArrayInputStream(bytes);
        DataInputStream oi = new DataInputStream(bais);
        int version = oi.readInt();
        // the new encoding scheme includes a version field
        // that is always negative. If the version field
        // is not present then we'll use the legacy
        // decoding method
        if (version < 0) {
            return decodeBytes(oi);
        } else {
            // need to re-create this stream
            // because the first int read above
            // is not present in the legacy codec
            bais = new ByteArrayInputStream(bytes);
            return decodeBytes(bais);
        }
    }

}
oi = new DataInputStream(bais);
return legacyDecode(oi);

public static HyperLogLogPlus build(DataInput oi) throws IOException {
    int version = oi.readInt();
    // the new encoding scheme includes a version field
    // that is always negative. If the version field
    // is not present then we'll use the legacy
    // decoding method
    if (version < 0) {
        return decodeBytes(oi);
    } else {
        return legacyDecode(oi);
    }
}

private static HyperLogLogPlus legacyDecode(DataInput oi) throws IOException {
    int p = oi.readInt();
    int sp = oi.readInt();
    int formatType = oi.readInt();
    if (formatType == 0) {
        int size = oi.readInt();
        byte[] longArrayBytes = new byte[size];
        oi.readFully(longArrayBytes);
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, new RegisterSet((int) Math.pow(2, p), Bits.getBits(longArrayBytes)));
        hyperLogLogPlus.format = Format.NORMAL;
        return hyperLogLogPlus;
    } else {
        int l;
        List<byte[]> deltaByteSet = new ArrayList<byte[]>();
        while ((l = oi.readInt()) > 0) {
            byte[] longArrayBytes = new byte[l];
            oi.readFully(longArrayBytes, 0, l);
            deltaByteSet.add(longArrayBytes);
        }
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, deltaByteSet);
        hyperLogLogPlus.format = Format.SPARSE;
        return hyperLogLogPlus;
    }
}

private static HyperLogLogPlus decodeBytes(DataInput oi) throws IOException {
    int p = Varint.readUnsignedVarInt(oi);
    int sp = Varint.readUnsignedVarInt(oi);
    int formatType = Varint.readUnsignedVarInt(oi);
    if (formatType == 0) {
        int size = Varint.readUnsignedVarInt(oi);
        byte[] longArrayBytes = new byte[size];
        oi.readFully(longArrayBytes);
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, new RegisterSet((int) Math.pow(2, p), Bits.getBits(longArrayBytes)));
        hyperLogLogPlus.format = Format.NORMAL;
        return hyperLogLogPlus;
    } else {
        int[] rehydratedSparseSet = new int[Varint.readUnsignedVarInt(oi)];
        int prevDeltaRead = 0;
        for (int i = 0; i < rehydratedSparseSet.length; i++) {
            int nextVal = Varint.readUnsignedVarInt(oi) + prevDeltaRead;
            rehydratedSparseSet[i] = nextVal;
            prevDeltaRead = nextVal;
        }
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, rehydratedSparseSet);
        hyperLogLogPlus.format = Format.SPARSE;
        return hyperLogLogPlus;
    }
}

@SuppressWarnings("serial")
protected static class HyperLogLogPlusMergeException extends CardinalityMergeException {
    public HyperLogLogPlusMergeException(String message) {
        super(message);
    }
}

private Object writeReplace() {
    return new SerializationHolder(this);
}

/**
 * This class exists to support Externalizable semantics for
 * HyperLogLog objects without having to expose a public
 * constructor, public write/read methods, or pretend final
 * fields aren't final.
 *
 * In short, Externalizable allows you to skip some of the more
 * verbose meta-data default Serializable gets you, but still
 * includes the class name. In that sense, there is some cost
 * to this holder object because it has a longer class name. I
 * imagine people who care about optimizing for that have their
 * own work-around for long class names in general, or just use
 * a custom serialization framework. Therefore we make no attempt
*/
private static class SerializationHolder implements Externalizable {

    HyperLogLogPlus hyperLogLogHolder;

    public SerializationHolder(HyperLogLogPlus hyperLogLogHolder) {
        this.hyperLogLogHolder = hyperLogLogHolder;
    }

    /**
     * required for Externalizable
     */
    public SerializationHolder() {
    }

    @Override
    public void writeExternal(ObjectOutput out) throws IOException {
        hyperLogLogHolder.writeBytes(out);
    }

    @Override
    public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
        hyperLogLogHolder = Builder.build(in);
    }

    private Object readResolve() {
        return hyperLogLogHolder;
    }
}
package com.clearspring.analytics.stream;

import java.util.List;

public interface ISampleSet<T> {
    long put(T element);
    long put(T element, int incrementCount);
    T removeRandom();
    T peek();
    List<T> peek(int k);
    int size();
    long count();
}

package com.clearspring.analytics.stream;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Random;

public class SampleSet<T> implements ISampleSet<T> {

*/

package com.clearspring.analytics.stream;

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

public class SampleSet<T> implements ISampleSet<T> {

*/

package com.clearspring.analytics.stream;

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

public class SampleSet<T> implements ISampleSet<T> {

*/
private Map<T, Node<T>> sampleMap;
private int size;
private long count;
private Random random;

/**
 * Element with the highest frequency in the set
 */
private Node<T> head;

/**
 * Element with the lowest frequency in the set
 */
private Node<T> tail;

public SampleSet() {
    this(7);
}

public SampleSet(int capacity) {
    this(capacity, new Random());
}

public SampleSet(int capacity, Random random) {
    sampleMap = new HashMap<T, Node<T>>(capacity);
    this.random = random;
}

public T peek() {
    return (head != null) ? head.element : null;
}

public List<T> peek(int k) {
    List<T> topK = new ArrayList<T>(k);
    for (Node<T> itr = head; itr != null && topK.size() < k; itr = itr.next) {
        topK.add(itr.element);
    }
    return topK;
}

public long put(T element) {
    return put(element, 1);
}

public long put(T element, int incrementCount) {
    Node<T> node = sampleMap.get(element);
    if (node != null) {
node.count = node.count + incrementCount;
    promote(node);
} else {
    node = new Node<T>();
    node.element = element;
    node.count = incrementCount;
    node.prev = tail;
    if (tail != null) {
        tail.next = node;
    }
    tail = node;
    if (head == null) {
        head = node;
    }
    sampleMap.put(element, node);
    size++;
}
    count++;
    return node.count;
}

public T removeRandom() {
    double p = random.nextDouble();
    long weight = 0;
    for (Node<T> itr = head; itr != null; itr = itr.next) {
        weight += itr.count;
        if (p < weight / (double) count) {
            itr.count--;
            count--;
            demote(itr);
            if (itr.count == 0) {
                removeMin();
            }
            return itr.element;
        }
    }
    return null;
}

protected T removeMin() {
    if (tail == null) {
        return null;
    }
    size--;
    count -= tail.count;
    T minElement = tail.element;
    tail = tail.prev;
    if (tail != null) {

tail.next = null;
}
sampleMap.remove(minElement);
return minElement;
}

public int size() {
    return size;
}

public long count() {
    return count;
}

protected T peekMin() {
    return tail.element;
}

protected void promote(Node<T> node) {
    // Bring node closer to the head as necessary
    while (node.prev != null && node.count > node.prev.count) {
        // BEFORE head... [A]node.prev.prev --> [B]node.prev --> [C]node --> [D]node.next ...tail
        // AFTER  head... [A]node.prev.prev --> [C]node --> [B]node.prev --> [D]node.next ...tail
        Node<T> b = node.prev, c = node, d = node.next, a = (b == null) ? null : b.prev;

        // Re-link each of 3 neighboring pairs
        if (a != null) {
            a.next = c;
        }
        c.prev = a;

        c.next = b;
        b.prev = c;

        b.next = d;
        if (d != null) {
            d.prev = b;
        }

        // B and C may have switched head/tail roles
        if (head == b) {
            head = c;
        }
        if (tail == c) {
            tail = b;
        }
    }
}
protected void demote(Node<T> node) {
    // Bring node closer to the tail as necessary
    while (node.next != null && node.count < node.next.count) {
        // BEFORE head... [A]node.prev --> [B]node --> [C]node.next --> [D]node.next.next ...tail
        // AFTER  head... [A]node.prev --> [C]node.next --> [B]node --> [D]node.next.next ...tail
        Node<T> a = node.prev, b = node, c = node.next, d = (c == null) ? null : c.next;

        // Re-link each of 3 neighboring pairs
        if (a != null) {
            a.next = c;
        }
        c.prev = a;
        c.next = b;
        b.prev = c;

        if (d != null) {
            d.prev = b;
        }
        b.next = d;

        // B and C may have switched head/tail roles
        if (head == b) {
            head = c;
        }
        if (tail == c) {
            tail = b;
        }
    }
}

private class Node<E> {
    private Node<E> next;
    private Node<E> prev;
    private E element;
    private long count;
}

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package com.clearspring.analytics.util;

import java.util.ConcurrentModificationException;
import java.util.Iterator;

public class DoublyLinkedList<T> implements Iterable<T> {

    protected int size;
    protected ListNode2<T> tail;
    protected ListNode2<T> head;

    /**
     * Append to head of list
     */
    public ListNode2<T> add(T value) {
        ListNode2<T> node = new ListNode2<T>(value);
        if (size++ == 0) {
            tail = node;
        } else {
            node.prev = head;
            head.next = node;
        }

        head = node;

        return node;
    }

    /**
     * Prepend to tail of list
     */
    public ListNode2<T> enqueue(T value) {
        ListNode2<T> node = new ListNode2<T>(value);
        if (size++ == 0) {
            head = node;
        } else {
            node.next = tail;
            tail.prev = node;
        }

        return node;
    }
}
tail = node;
return node;
}

public void add(ListNode2<T> node) {
node.prev = head;
node.next = null;

if (size++ == 0) {
tail = node;
} else {
head.next = node;
}

head = node;
}

public ListNode2<T> addAfter(ListNode2<T> node, T value) {
ListNode2<T> newNode = new ListNode2<T>(value);
addAfter(node, newNode);
return newNode;
}

public void addAfter(ListNode2<T> node, ListNode2<T> newNode) {
newNode.next = node.next;
newNode.prev = node;
node.next = newNode;
if (newNode.next == null) {
head = newNode;
} else {
newNode.next.prev = newNode;
}
size++;
}

public void remove(ListNode2<T> node) {
if (node == tail) {
tail = node.next;
} else {
node.prev.next = node.next;
}

if (node == head) {
head = node.prev;
} else {
node.next.prev = node.prev;
}
size--;  
}  

public int size() {  
    return size;  
}  

@Override  
public Iterator<T> iterator() {  
    return new DoublyLinkedListIterator(this);  
}  

protected class DoublyLinkedListIterator implements Iterator<T> {  
  
  protected DoublyLinkedList<T> list;  
  protected ListNode2<T> itr;  
  protected int length;  

  public DoublyLinkedListIterator(DoublyLinkedList<T> list) {  
    this.length = list.size;  
    this.list = list;  
    this.itr = list.tail;  
  }  

  @Override  
  public boolean hasNext() {  
    return itr != null;  
  }  

  @Override  
  public T next() {  
    if (length != list.size) {  
      throw new ConcurrentModificationException();  
    }  
    T next = itr.value;  
    itr = itr.next;  
    return next;  
  }  

  @Override  
  public void remove() {  
    throw new UnsupportedOperationException();  
  }  

  }  

public T first() {
return tail == null ? null : tail.getValue();
}

public T last() {
    return head == null ? null : head.getValue();
}

public ListNode2<T> head() {
    return head;
}

public ListNode2<T> tail() {
    return tail;
}

public boolean isEmpty() {
    return size == 0;
}

@SuppressWarnings("unchecked")
public T[] toArray() {
    T[] a = (T[]) new Object[size];
    int i = 0;
    for (T v : this) {
        a[i++] = v;
    }
    return a;
}

1.979 Streaming API for XML 1.0-2

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1.986 syslog-ng 3.5.6 :4 Aug 2014

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FAQ:
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This is syslog-ng, written and maintained by <bazsi@balabit.hu> on Sat, 03 Mar 2007 16:07:59 +0100

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1.988 syslog-ng_LGPLv2.1 3.5.6

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=====

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1.989 syslog-ng_libs 3.5.6 :4 Aug 2014

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*/

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- web-common_3_0.xsd
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may be obtained from http://java.sun.com/xml/ns/javae/
1.1008 tomcat-embed-core 8.0.30

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The original XML Schemas for Java EE Deployment Descriptors:
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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1.1011 tomcat-embed-logging-juli 8.0.30

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The original XML Schemas for Java EE Deployment Descriptors:

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_5.xsd

- javaee_web_services_1_2.xsd
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- javaee_web_services_client_1_3.xsd
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- web-common_3_0.xsd
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// JSLitmus.js

//
// History:
// 2008-10-27: Initial release
// 2008-11-09: Account for iteration loop overhead
// 2008-11-13: Added OS detection
// 2009-02-25: Create tinyURL automatically, shift-click runs tests in reverse
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  *
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* *-----------------------------------------------------------------------
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
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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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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.)

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1.1026 vim 7.4.488 :James McCoy  04 Nov 2014

1.1027 vixie-cron 3.0.1 :69

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1.1030 web-servlet 3.1.3

1.1031 WebSocket client API 1.1
1.1031.1 Available under license :
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1.1032 WebSocket server API 1.0
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cat javax.websocket-api-1.0-sources-2/javax/websocket/DecodeException.java
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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.

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1.1064 XPP3 1.1.4c

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1.1065 xpp3_min 1.1.4c

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1.1066 xstream 1.4.4

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1.1071 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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/*

1.1072 zlib 1.2.8
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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