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package org.acegisecurity;
* An abstract implementation of the [AuthenticationManager].
* 
* @author Wesley Hall
* @version $Id: AbstractAuthenticationManager.java 2654 2008-02-18 20:44:09Z luke_t $ 
* 
public abstract class AbstractAuthenticationManager implements AuthenticationManager {

    //~ Instance fields
   ==================================================================================
   ==============
    private boolean clearExtraInformation = true;

    //~ Methods
   ==================================================================================

    /**
     * <p>An implementation of the authenticate method that calls the abstract method doAuthenticate to do its work.</p>
     * <p>If doAuthenticate throws an AuthenticationException then the exception is populated with the failed Authentication object that failed.</p>
     * 
     * @param authRequest the authentication request object
     * 
     * @return a fully authenticated object including credentials
     * 
     * @throws AuthenticationException if authentication fails
     */
    public final Authentication authenticate(Authentication authRequest) throws AuthenticationException {
        try {
            return doAuthentication(authRequest);
        } catch (AuthenticationException e) {
            e.setAuthentication(authRequest);

            if (clearExtraInformation) {
                e.clearExtraInformation();
            }

            throw e;
        }
    }

    /**
     * Concrete implementations of this class override this method to provide the authentication service.
     */
    
}
* @param authentication the authentication request object
* 
* @return a fully authenticated object including credentials
* 
* @throws AuthenticationException if authentication fails
*/
protected abstract Authentication doAuthentication(Authentication authentication)
    throws AuthenticationException;

/**
* If set to true, the <tt>extraInformation</tt> set on an <tt>AuthenticationException</tt> will be cleared
* before rethrowing it. This is useful for use with remoting protocols where the information shouldn't
* be serialized to the client. Defaults to 'false'.
*
* @see AuthenticationException#getExtraInformation()
*/
public void setClearExtraInformation(boolean clearExtraInformation) {
    this.clearExtraInformation = clearExtraInformation;
}
}

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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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creates an executable that is a derivative of the Library (because it
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that is part of the Library, the object code for the work may be a
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1.6 activation 1.1

1.7 activation 1.2.0

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</head>
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Version: 1.2
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1.26 angular-ui-grid 3.0.7
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1.27 angular-vs-repeat 1.1.7
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1.28 angular-wizard 0.6.0

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1.29 animal-sniffer-annotations 1.18
1.30 animal-sniffer-annotations 1.17

1.31 annotations 1.3.9

1.32 annotations 1.3.2

1.33 annotations-api 6.0.20

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1.35 annotations-api 6.0.20

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Xerces Java Build Instructions
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Before building Xerces, you need the source package and tools
package available from the Apache XML Project's distribution
web page:

http://xml.apache.org/dist/xerces-j/

Download both the Xerces-J-src.X.Y.Z.zip and Xerces-J-tools.X.Y.Z.zip
files for the appropriate Xerces release (where "X.Y.Z" is the version
number) and extract them in the same directory. If you are using Unix,
download the equivalent .tar.gz files instead of the .zip files.

You also need to have a Java Development Kit (JDK) version 1.2 (or
higher) installed on your system. Before initiating any part of the
build, set the JAVA_HOME environment variable to the installation
directory of your JDK.

The Ant program is used to build everything in Xerces, including
the documentation. This tool, and the others needed (besides the
pre-requisite JDK) are contained within the tools package. To
make building the packages easier, a Windows batch file and a Unix
shell script are included.

If you only want to compile the source code and make the JAR files,
run the following command on Windows:

```
build.bat jars
```

or from Unix (make sure that build.sh is executable):

```
build.sh jars
```

This will compile all of the source code and generate the JAR
files that are available as part of the binary package. After
building, these files will be located in the build/ directory.

If you want to build everything, including the documentation,
run the build batch file (or shell script) specifying the "all"
target instead of "jars".

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1.77 asm 3.1

1.78 asm 7.0

1.79 ASM 3.3 :asm-3.3
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package org.objectweb.asm;

/**
 * A visitor to visit a Java annotation. The methods of this interface must be
 * called in the following order: (<tt>visit</tt> | <tt>visitEnum</tt> |
 * <tt>visitAnnotation</tt> | <tt>visitArray</tt>) | <tt>visitEnd</tt>.
 *
 * @author Eric Bruneton
 * @author Eugene Kuleshov
 */
public interface AnnotationVisitor {

/**
 * Visits a primitive value of the annotation.
 *
 * @param name the value name.
 * @param value the actual value, whose type must be { @link Byte},
 *              { @link Boolean}, { @link Character}, { @link Short},
 *              { @link Integer}, { @link Long}, { @link Short},
 *              { @link Float}, { @link Double},
 */

void visit(String name, Object value);

/**
 * Visits an enumeration value of the annotation.
 *
 * @param name the value name.
 * @param desc the class descriptor of the enumeration class.
 * @param value the actual enumeration value.
 */
void visitEnum(String name, String desc, String value);

/**
 * Visits a nested annotation value of the annotation.
 *
 * @param name the value name.
 * @param desc the class descriptor of the nested annotation class.
 * @return a visitor to visit the actual nested annotation value, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         this nested annotation. <i>The nested annotation value must be
 *         fully visited before calling other methods on this annotation
 *         visitor</i>.
 */
AnnotationVisitor visitAnnotation(String name, String desc);

/**
 * Visits an array value of the annotation. Note that arrays of primitive
 * types (such as byte, boolean, short, char, int, long, float or double)
 * can be passed as value to {@link #visit visit}. This is what
 * [@link ClassReader] does.
 *
 * @param name the value name.
 * @return a visitor to visit the actual array value elements, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         these values. The 'name' parameters passed to the methods of this
 *         visitor are ignored. <i>All the array values must be visited
 *         before calling other methods on this annotation visitor</i>.
 */
AnnotationVisitor visitArray(String name);

/**
 * Visits the end of the annotation.
 */

void visitEnd();
}

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1.98 aspectjrt 1.6.1

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1.102 Atomikos Util 3.6.4

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§ Local Variables:
§ ispell-local-pdict: "ispell-dict"
§ End:

1.108 avahi 0.6.31 :17.el7
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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
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(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

> Hi.  I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0.  Thanks.

Sure.  I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz.  There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away.  :-)  
From spicecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spicecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
  id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spicecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
  id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spicecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spicecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

Sure.  The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

            John

On May 9,  1:36pm, Chet Ramey wrote:
] Subject: ksh scripts
] Received: from Odin.Ins.Cwru.Edu by deepthought.armory.com id aa22336;
]         9 May 95 10:39 PDT
] Received: (chet@localhost) by Odin.Ins.Cwru.Edu (8.6.10+Cwru/Cwru-2.1-ins)
] id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site
a while back. I'd like your permission to include modified versions
of some of them in the next major bash distribution (with proper credit
given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?
That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

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document-open.png
document-print.png
edit-find.png
go-next.png
go-previous.png
icon-general.png (originally preferences-desktop.png)
icon-language.png (originally preferences-desktop-locale.png)
icon-network.png (originally applications-internet.png)
icon-security.png (originally dialog-warning.png)
icon-stylesheet.png (originally applications-graphics.png)
media-playback-pause.png
media-playback-start.png
process-stop.png
redo.png (modified version of edit-redo.png)
system-search.png
text-html.png
undo.png (modified version of edit-undo.png)
utilities-system-monitor.png
view-refresh.png
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1.123 bcmail-jdk14 1.38

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>bcprov-jdk15on 1.55</title>
<meta http-equiv="Content-type" content="text/html; charset=iso-8859-1" />
<meta http-equiv="Content-Language" content="en-aus" />
<meta name="description" content="Home of the Legion of the Bouncy Castle and their Java cryptography resources and open source code" />
<meta name="keywords" content="Legion of the Bouncy Castle, Cryptography, JCE, Java Cryptography Extension, Cryptography Source Code, ASN.1, X.509, Open Source" />
<link rel="shortcut icon" href="favicon.ico" type="image/x-icon" />
<link rel="stylesheet" type="text/css" href="bouncycastle.css" />
</head>
<body>

<div id="header">
<div id="title">
<h1>The Legion of the Bouncy Castle</h1>
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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 3a0982da308228d796df35f98d787c5cffe2b5bb6.

   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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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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  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 3a0982da308228d796df35f98d787c5cfff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
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Author: Julio Merino <jmmv84@gmail.com>

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Author: Julio Merino <jmmv84@gmail.com>

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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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 3a0982da308228d796df35f98d787e5:cf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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1.133 binutils 2.27 :34.base.el7_6

1.133.1 Available under license :

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
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entire whole, and thus to each and every part regardless of who wrote
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4. You may copy and distribute the Library (or a portion or
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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
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source code from the same place satisfies the requirement to
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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 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.

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

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@item
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@item
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Version 3, 29 June 2007
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Dean Elsner wrote the original gas for vax. [more details?]

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.
Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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(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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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.

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That's all there is to it!

1.134 boost 1.53.0 :27.el7
1.134.1 Available under license :

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--- end ---

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
static const bool value = C_;}

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

typedef true_ true_type;
typedef false_ false_type;

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

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
    bool C
    , typename T1
    , typename T2
> struct if_c
> {
>     typedef T1 type;
> };
>
> template<
>     typename T1
>     , typename T2
> >
> struct if_c<false,T1,T2>
> {
>     typedef T2 type;
> };
>
> template<
>     typename C
>     , typename T1
>     , typename T2
> >
> struct if_<
> {
>     typedef typename if_c<0 != C::value, T1, T2>::type type;
> };
>
> template<
>     bool C
>     , typename F1
>     , typename F2
> >
> struct eval_if_c
>     : if_c<C,F1,F2>::type
> {
> };
>
> template<
>     typename C
>     , typename T1
>     , typename T2
> >
> struct eval_if
>     : if_<C,T1,T2>::type
> {
> };
>
> // identity is an extension: it is not part of the standard.
> template <class T>
> struct identity
> {
>     typedef T type;
> }
#if defined(BOOST_MSVC) || defined(__BORLANDC__)
define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false; );

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)()> {  static const bool value = true;  );

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)> {  static const bool value = true;  );
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()> {  static const bool value = true;  );
#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()> {  static const bool value = true;  );
#endif
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()> {  static const bool value = true;  );
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)>() {  static const bool value = true;  );
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)>() {  static const bool value = true;  );
```cpp
struct is_unary_or_binary_function_impl<R(__cdecl*)(...>  
{ static const bool value = true; };

// see boost ticket #4094  
// avoid duplicate definitions of is_unary_or_binary_function_impl  
#elifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R(*)(T0)>  
{ static const bool value = true; };

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R(*)(T0...)>  
{ static const bool value = true; };

#elifndef _MANAGED

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R(__stdcall*)(T0)>  
{ static const bool value = true; };

#endif

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R(__cdecl*)(T0)>  
{ static const bool value = true; };

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R(__cdecl*)(T0...)>  
{ static const bool value = true; };

#endif

// see boost ticket #4094  
// avoid duplicate definitions of is_unary_or_binary_function_impl  
#elifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R(*)(T0, T1)>  
{ static const bool value = true; };
```

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;   };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{  char c;
  T t;
  alignment_of_hack();
};
template <unsigned A, unsigned S>
struct alignment_logic
{
  static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
  static const std::size_t value = alignment_logic
      < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
      >::value;
};

template <typename T, typename U>
struct is_same
{
  typedef char yes_type;
  struct no_type
  {
    char padding[8];
  };

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

  static T *t;
  static U *u;

  static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t, u));
};

template<typename T>
struct add_const
{
  typedef const T type;
};

template<typename T>
struct remove_const
{
  typedef  T type;
};

template<typename T>
struct remove_const<const T>
{
  typedef T type;
};

template<typename T>
struct remove_cv
typedef T type;

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };;

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

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

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

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

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant
            {
                static const std::size_t value = val;
            }

        } //namespace ipcdetail
    } //namespace interprocess
} //namespace boost
static const T value = val;
typedef integral_constant<T,val> type;
;
template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};
typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_   true_type;
typedef false_  false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c {    
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};    
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};    
template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};    
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };    
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
  bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

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

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

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first;  }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  { return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
  typedef T type;
const T& operator()(const T& x) const
{ return x; }
;

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

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

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

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

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#include <cstddef>

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//@
//@

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_H
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_H

#ifndef _MSC_VER || (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_H

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namespace boost {
namespace container {
namespace container_detail {

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

template< bool C_ >
struct bool_ : integral_constant<bool, C_> {
    static const bool value = C_; 
    operator bool() const { return bool_::value; } 
};

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

typedef true_  true_type;
typedef false_ false_type;

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

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

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

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

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

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

}
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };  
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

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

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

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

template <class Pair>
struct select1st
  // : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }  
}
const typename Pair::first_type& operator()(const typename Pair::first_type& x) const  
{  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>  
struct identity  
// : public std::unary_function<T,T>  
{  
typedef T type;  
const T& operator()(const T& x) const  
{  return x;  }
};

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

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

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

template<typename T> struct void { typedef T type; };
template <> struct void<void> { struct type { }; };
template <> struct void<const void> { struct type { }; };

}  //namespace container_detail {  
}  //namespace container {  
}  //namespace boost {
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

BOOST.Geometry (aka GGL, Generic Geometry Library)

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All the value based traits in this library conform to MPL's requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">boost::mpl::true_</code>`. 


false_type inherits from boost\class\mpl\false_, and integral_constant\class\T\class\v\class\mpl\integral_c\class\T\class\v\class\integral_constant is not T\class\integral_constant inherits from boost\class\mpl\special\integral_constant\class\T\class\v. (provided \class\T is not \keyword{bool}).
All the value based traits in this library conform to MPL’s requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [`boost::mpl::true_`], `__false_type` inherits from [`boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`] (provided ‘T’ is not ‘bool’).
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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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Maybe this should pass?
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 Dossier (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.mit.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 Dossier provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@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.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>
//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
: root(r), file(f){}
private:
split_path& operator=(const split_path&);
};
std::ostream& operator << (std::ostream& os, const split_path& p)
{
os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
return os;
}
std::string make_link_target(const std::string& s)
{
// convert an arbitrary string into something suitable
// for an <a> name:
std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;
}

void bcp_implementation::output_license_info()
{
std::pair<const license_info*, int> licenses = get_licenses();
std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

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std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output."
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">\n"
"<html>\n"
"<head>\n"
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{
    os " for " "<m_module_list.begin());
}

os <<
"</head>\n"
"</title>\n"
"</body>\n"
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os " for " "<m_module_list.begin());
}

os <<
"</H1>\n"
"<H2>Contents</H2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os " <a href="#summary">Licence Summary</a>
    os " <a href="#details">Licence Details</a>
while(i != j)
{
    // title:
    os " <A href="#" " make_link_target(licenses.first[i->first].license_name)
    os " " <licenses.first[i->first].license_name << " ";
    ++i;
}

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

// input Information:
//
// if(m_scan_mode)
// os << "The following files were scanned for boost dependencies:<BR>
//else
// os << "The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

os << "The Boost path was: <code>" << m_boost_path.string() << "</code>";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*\#define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)\n";
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "<P><n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#"(see details)</a>";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
    //
    // and now the details:
    //
    i = m_license_data.begin();
    j = m_license_data.end();
    int license_index = 0;
    os << "<a name="details"></a><h2>Licence Details</h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << "></a>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        if(!m_bsl_summary_mode || (license_index >= 3))
        {
            // Copyright holders:
            os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
            std::set<std::string>::const_iterator x, y;
            x = i->second.authors.begin();
            y = i->second.authors.end();
            while(x != y)
            {
                os << *x << "<BR>";
            }
        }
    }
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```cpp
++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n";
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:";</P><BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</P></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n";
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:";</P>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
```
```
Files that can be automatically converted to the Boost Software License

The following files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

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

//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " - > ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
            }
            seen_deps.insert(dep->second);
            ++fi;
        }
}
break; // circular dependency!!!
}  
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

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

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

Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
: mpl::identity<T>
#if defined(__MWERKS__)
, aux::print_base
-#endif
+#endif

#define mpl::print_base
{
#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };  
#else
    enum { n =
        # if defined(__EDG_VERSION__)
        aux::dependent_unsigned<T>::value > -1
        # else
        sizeof(T) > -1
        # endif

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1.135 boost 1.51.0

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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    </li>
    <li class="menuItem">
        <a href=".././participating/contributors.html" title="Lists people who are or have been contributing to Cactus." class="currentPage">Contributors</a>
    </li>
    <li class="menuItem">
        <a href=".././participating/users.html" title="Informal list about who is using Cactus.">Who Uses Cactus?</a>
    </li>
</ul></li>

<li class="menuItem">Developers<ul>
    <li class="menuItem">
        <a href=".././participating/todo.html" title="List of todo tasks for the next Cactus releases.">Roadmap/Todo</a>
    </li>
    <li class="menuItem">
        <a href=".././participating/build_result.html" title="Aggregated links to the results of the nightly builds.">Nightly Build Results</a>
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    <li class="menuItem">
        <a href=".././participating/coding_conventions.html" title="The coding conventions used for the development of Cactus itself.">Coding Conventions</a>
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    <li class="menuItem">
        <a target="cvs" href="http://jakarta.apache.org/site/cvsindex.html">CVS</a>
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    </li>
    <li class="menuItem">
        <a href=".././participating/coverage.html" title="Cactus code coverage reports (generated by Clover)">Code Coverage Reports</a>
    </li>
</ul></li>
All work on Cactus is contributed by volunteers whose only motivation is to help make Cactus work even better, both for themselves and for rest of the community.

All contributions are welcome (see the Participating page). The final decision of what becomes part of the official distribution is made by a group of Committers.
For more about Meritocracy, see the
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Jakarta Website.
</p>

</blockquote>
</div>

<div class="section">
<h1>Source code contributors</h1>

<blockquote>
<ul>
<li><a href="mailto:vmassol@apache.org" title="">Vincent
Massol</a></li>
<li><a href="mailto:paston@bea.com" title="">Philip Aston</a></li>
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Worsley</a></li>
</ul>
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<ul>
  <li><a href="mailto:vmassol@apache.org" title="">Vincent Massol</a></li>
  <li><a href="mailto:cchabanois@ifrance.com" title="">Cedric Chabanois</a></li>
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<li>
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</li>

</ul>
<a name="committers">
<!--anchor--></a>

<div class="section">
<h1>Committers</h1>

<ul>
<li><a href="mailto:vmassol@octo.com" title="">Vincent Massol</a></li>
<li><a href="mailto:jariw@hyperlink-interactive.co.uk" title="">Jari Worsley</a></li>
<li><a href="mailto:ndlesiecki@yahoo.com" title="">Nicholas Lesiecki</a></li>
<li><a href="mailto:jruaux@octo.com" title="">Julien Ruaux</a></li>
<li><a href="mailto:cmlenz@gmx.de" title="">Christopher Lenz</a></li>
</ul>
</div>
<p>Thanks to all that have reported bugs or suggested ideas for Cactus.</p>

<p>Thanks to all that are participating to the Cactus Logo competition.</p>

<p>And, of course ...</p>

<p>Thanks to the Apache Jakarta project for accepting the donation of J2EEUnit (renamed Cactus), thus giving it a home and more importantly a family.</p>

</div>

<div class="section">
<h1>More about us</h1>

<p><b><a href="mailto:vmassol@apache.org" title="">Vincent Massol</a> -- Committer</b></p>

<b><a href="mailto:vmassol@apache.org" title="">Vincent Massol</a></b>

-- Committer

</div>
I started designing internet applications in 1998, when I joined <a href="http://www.octo.com" title="">OCTO Technology</a>, an Information System Architecture Consulting company, providing expert IT Solutions and Application Architects in the field of new technologies (Application Servers, EAI, Internet Relationship Management). Very soon, when working on customer projects, I introduced the concept of unit testing (using JUnit) as a good way of writing reliable code. Although it worked very well for unit testing "standard" java classes, it was much more difficult for classes that used container objects. Thus, I began developing a small generic framework to help unit test servlets. I improved the framework as I moved on, from customer to customer.

Until it was time to open source it! There were several drivers for that decision. As I spread the word about this framework within Octo, several octomen (and octowoman!) began using it and making modifications, and we ended up with several versions of it, making it difficult to synchronize them (although it was good for the evolutionary and darwinian side of it :)). Another good reason was that I wanted to have feedback from the open source community and wanted to get help to improve it. Also, it was good to be able to provide to our customers a framework that would continue to evolve and be maintained even after we left the project. The last reason, maybe the strongest, is that I have always been fond of the open source concept and as Octo is providing consulting services, it did not clash with our business model!

Thus, I moved the project to SourceForge and called it J2EEUnit. It did well and more and more persons were downloading, participating and using it.

Now, most Applications Servers, EAI solutions or IRM ones are providing an infrastructure on which to build applications. But once you've bought the server, you're far from being finished... There is the business logic code to write but there is also a lot of "glue" to implement. These are technical frameworks like a Controller of the MVC model, a logging framework, an XML-Java mapping one, application configuration, localization, templating, ... And usually these frameworks are not provided in the software package you buy.
And even if they are (logging for example), they are not best of breed ones. For these frameworks, I have always been using open source solutions so far (Struts, Log4j, Ant, ...). Thus, I was lurking on Jakarta mailing-lists when I heard about a new project starting, called "Commons" which was to be a place where common components useful for several Jakarta projects would be found. I thought the idea of having a server-side java unit testing framework for Jakarta project (which are server side projects) was a good idea. I proposed to donate J2EEUnit to the Apache Software Foundation ... and I was lucky enough it was accepted ! :-)

However, the J2EEUnit name was infringing on the Sun trademark on J2EE so we had to change the name. It was changed to Cactus (see the Why the name? page for why this name). I found that in the move from SourceForge to Jakarta, I had found a new home for Cactus but, more importantly, I had found a family ! The sense of Community is very strong on Jakarta. You can feel right away the atmosphere and see it is different from other places.

Then, thanks to Cactus growing community, our efforts were rewarded and Cactus was accepted as a Jakarta top level project, alongside the renowned Tomcat, Ant, Struts, ... waowww !

We are now busy improving Cactus and looking for help. The first step was to get Cactus up and running and demonstrate it worked and is useful. This step has been achieved (I hope :) ). The second step is now to build a community around Cactus and find persons who are willing to actively participate in the future of it. Unit testing has still not reached the mainstream of development practices but is in the process of doing so with increasing interest in lightweight (also called "Agile") methodologies like Extreme Programming (XP). On the other hand, java server side programming is becoming stronger every day. This is to say that there is a bright future ahead for Cactus and there is still everything to invent.

Although the project started as a one-man project, my goal has always been to relinquish as much as possible my hold on Cactus and make it
a community-wide project. This is a work in progress and I am proud to say that I am no longer the only committer on the project and several persons have jumped aboard and are already helping shape Cactus future. Come and help us! :)
</p>

More info on my current open source involvements can be found

---

I became involved in Cactus while co-authoring
<a href="http://www.amazon.com/exec/obidos/ASIN/047120708X/" title="">Java Tools for Extreme Programming</a>. (See our <a href=".././resources/index.html#xp_book">resources</a> section for details.) While researching the framework I found myself making some suggestions on the project's mailing list. One thing led to another, and now I am graced with committer status.

I currently work as a Technical Team Lead at
<a href="http://www.eblox.com" title="">eBlox, Inc</a>, a consulting and ecommerce application development shop. Right now I lead development of the company's flagship online catalog system,
<a href="http://eblox.com/storeblox.php" title="">storeBlox</a>. As such, I'm always working on new ways to test J2EE components, and so my involvement with Cactus is natural.

I'm excited about Cactus 2.0, which we hope will usher in the next phase in in-container testing by providing a more abstract framework for interacting with a wider variety of containers (EJB, JMS, etc.).
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1.149 cairo 1.14.8 :2.el7

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1.170 class-model 2.5.0-b32

1.171 class.js 1.0

1.171.1 Available under license:

```javascript
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1.220 commons-beanutils 1.9.2

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That's all there is to it!
f2c is a Fortran to C converter under development since 1990 by 
David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies) 
Stu Feldman (then at Bellcore, now at IBM) 
Mark Maimone (Carnegie-Mellon University) 
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**************************************************************************
#undef LIB_SPEC
#define LIB_SPEC"%!{!p:%{!pg:-lc}}%{p:-lc_p}%{pg:-lc_p}"

#undef STARTFILE_SPEC
#define STARTFILE_SPEC"%!{pg:gcrt0.o%s}%{!pg:%{p:gcrt0.o%s}%{!p:crt0.o%s}}"

# Exactly the same as t-mips-gas, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include

/* Definitions of target machine for GNU compiler.  MIPS RISC-OS BSD version.
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#define MIPS_BSD43

#define CPP_PREDEFINES "\n-Dmips -Dunix -Dhost_mips -DMIPSEB -DR3000 -DSYSTYPE_BSD43 \ -D_mips -D_unix -D_host_mips -D_MIPSEB -D_R3000 -D_SYSTYPE_BSD43 \ -A_system=unix -A_system=bsd -A_cpu=mips -A_machine=mips"

#define STANDARD_INCLUDE_DIR "/bsd43/usr/include"
#define LINK_SPEC "
%{G*} %{EB} %{EL} %{mips1} %{mips2} %{mips3} \n%{bestGnum} %{shared} %{non_shared} \n-systype /bsd43"

#define LIB_SPEC "%{p:-lprof1} %{pg:-lprof1} -lc"

#define STARTFILE_SPEC "%{pg:gcrt0.o%s}%{!pg:%{p:mcrt0.o%s}%{!p:crt1.o%s crtn.o%s}}"

#define MACHINE_TYPE "RISC-OS BSD Mips"

/* Generate calls to memcpy, etc., not bcopy, etc. */
#define TARGET_MEM_FUNCTIONS

/* Override defaults for finding the MIPS tools. */
#define MD_STARTFILE_PREFIX "/bsd43/usr/lib/cmplrs/cc/
#define MD_EXEC_PREFIX "/bsd43/usr/lib/cmplrs/cc/
# Exactly the same as t-mips, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include
# BSD on the PA already has ANSI include files which are c++ compatible.
STMP_FIXPROTO=
#undef ASCII_DATA_ASM_OP
#define ASCII_DATA_ASM_OP 	.ascii	
#undef TARGET_VERSION
#define TARGET_VERSION fprintf(stderr, " (i860, BSD)"

/* BSD UN*X systems use BSD STABS debugging info. */
#define DBX_DEBUGGING_INFO

#define ASCII_DATA_ASM_OP 	.byte	
#define ASM_OUTPUT_ASCII(f, p, size)
 do { register size_t i, limit = (size);\n   int inside;\n   inside = FALSE;\n   for (i = 0; i < limit; i++) {\n     if (i % 64 == 0) {\n       if (i != 0) {\n         if (inside)\n           putc('"', (f));\n           putc('
', (f));\n           inside = FALSE;\n         }\n         fprintf((f), "%s", ASCII_DATA_ASM_OP);\n       }\n     }\n   }\n   if ((p)[i] < 32 || (p)[i] == '\' || (p)[i] == '"' || (p)[i] >= 127) {\n
if (inside) { \\
putc('"', (f)); \\
inside = FALSE; \\
} \\
if (i % 64 != 0) \\
putc(',', (f)); \\
fprintf((f), "%d", (p)[i]); \\
} else { \\
if (!inside) { \\
if (i % 64 != 0) \\
putc(',', (f)); \\
putc('"', (f)); \\
inside = TRUE; \\
} \\
putc((p)[i], (f)); \\
} \\
if (inside) \\
putc('"', (f)); \\
putc('
', (f)); \\
} while (0)

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 (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.)

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Jan 21, 2002

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package java.security;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
* The most important method in this class is `implies()`. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.

* `Permission`'s are not dynamic objects. Once created, a `Permission`'s name and action list cannot be changed.

* @version 0.0

* @author Aaron M. Renn (arenn@urbanophile.com)

public abstract class Permission implements Guard, Serializable
{

/**
 * This is the name assigned to this permission object.
 */
private String name; // Taken from the serializable form information

/**
 * This method initializes a new instance of `Permission` to have the specified name.
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method returns the name of this `Permission`
 *
 * @return The name of this `Permission`
 */
public final String getName()
{
    return (name);
}

/**
 * This method returns the list of actions for this `Permission` as a `String`.
 *
 * @return The action list for this `Permission`
 */
public abstract String getActions();
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj The <code>Object</code> being guarded - ignored by this class
 *
 * @exception SecurityException If the security check fails
 */
public void checkGuard(Object obj) throws SecurityException
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * Check to see if this object equals OBJ.
 */
public abstract boolean equals (Object obj);

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm The <code>Permission</code> to test against
 *
 * @return <code>true</code> if the specified <code>Permission</code> is implied by this one,
 * <code>false</code> otherwise.
 */
public abstract boolean implies(Permission perm);

/**
 * This method returns a hash code for this <code>Permission</code>.
 *
 * @return A hash value.
 */
public abstract int hashCode();

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object.
 *
 * @return This object as a <code>String</code>.
 */
public String toString()
{
    return ("" + getClass().getName() + "" + getName() + "" + getActions() + "")
;}

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined.
 *
 * @return A new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
public abstract boolean equals(Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
public String toString();
}

1.293 config-types 2.5.0-b32
1.293.1 Available under license :
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Version 2.1, February 1999

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If such an object file uses only numerical parameters, data
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Discussion thread from mailing list archive, with approval from everyone actively
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[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 unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

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
> > 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
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir applications are also GPL-2 which imo is just wrong. it isnt the place of =
library to dictact to application writes what license they should be using.=
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
=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 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
> 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.
> >=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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
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 Frysinger <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. FWTW, 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.
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++
>
> -a

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 SMTPSVC(6.0.3790.3959);
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

#!/usr/bin/python
# Copyright 2009, 2012 Jan Dittberner <jan@dittberner.info>
#
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1.301 cronie 1.4.11 :17.el7
1.301.1 Available under license :

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@(#)bitstring.h 8.1 (Berkeley) 7/19/93

1.302 cryptsetup 1.7.4 :3.el7
1.302.1 Available under license :

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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
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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

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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.

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

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

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

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

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 */

package org.codehaus.jackson.map;

import org.codehaus.jackson.*;

/**
 * Sub-class of {link JsonFactory} that will create a proper
 * {link ObjectCodec} to allow seamless conversions between
 * Json content and Java objects (POJOs).
 * The only addition to regular {link JsonFactory} currently
 * is that {link ObjectMapper} is constructed and passed as
 * the codec to use.
 */

public class MappingJsonFactory
    extends JsonFactory
{
    public MappingJsonFactory()
    {
        this(null);
    }
}
public MappingJsonFactory(ObjectMapper mapper) {
    super(mapper);
    if (mapper == null) {
        setCodec(new ObjectMapper(this));
    }
}

/**
 * We'll override the method to return more specific type; co-variance
 * helps here
 */
@Override
public final ObjectMapper getCodec() { return (ObjectMapper) _objectCodec; }
}

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

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*/

/*
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 *
 * This file is part of the Deployment Toolkit. It provides functions for web
 * pages to detect the presence of a JRE, install the latest JRE, and easily run
 * applets or Web Start programs. More Information on usage of the
 * Deployment Toolkit can be found in the Deployment Guide at:
 * http://docs.oracle.com/javase/6/docs/technotes/guides/jweb/index.html
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 * You can access this file w/o the whitespace and comments removed at:
 *
*/

var deployJava = function() {
 /** HTML attribute filter implementation */
 var hattrs = {
   core: [ 'id', 'class', 'title', 'style' ],
   i18n: [ 'lang', 'dir' ],
   events: [ 'onclick', 'ondblclick', 'onmousedown', 'onmouseup',
     'onmouseover', 'onmousemove', 'onmouseout', 'onkeypress',
     'onkeydown', 'onkeyup' ],
   applet: [ 'codebase', 'code', 'name', 'archive', 'object',
     'width', 'height', 'alt', 'align', 'hspace', 'vspace' ],
   object: [ 'classid', 'codebase', 'codetype', 'data', 'type',
     'archive', 'declare', 'standby', 'height', 'width', 'usemap',
     'name', 'tabindex', 'align', 'border', 'hspace', 'vspace' ]
 }; 

 var object_valid_attrs = hattrs.object.concat(hattrs.core, hattrs.i18n,
   hattrs.events);
 var applet_valid_attrs = hattrs.applet.concat(hattrs.core);

 function getWebStartLaunchIconURL() {
   var imageUrl = '//java.com/js/webstart.png';
   try {
     // for http/https; use protocol less url; use http for all other protocol
     return document.location.protocol.indexOf('http') !== -1 ?
   } catch (e) { return null; }

   var imageUrl = document.location.protocol + '//' + document.location.host +
     '/js/webstart.png';
   return imageUrl;
 }

imageUrl : 'http:' + imageUrl;
} catch (err) {
    return 'http:' + imageUrl;
}
}

function arHas(ar, attr) {
    var len = ar.length;
    for (var i = 0; i < len; i++) {
        if (ar[i] === attr) return true;
    }
    return false;
}

function isValidAppletAttr(attr) {
    return arHas(applet_valid_attrs, attr.toLowerCase());
}

function isValidObjectAttr(attr) {
    return arHas(object_valid_attrs, attr.toLowerCase());
}

/* HTML attribute filters */

var rv = {

debug: null,

firefoxJavaVersion: null,

myInterval: null,

preInstallJREList: null,

returnPage: null,

brand: null,

locale: null,

installType: null,

EAInstallEnabled: false,

EarlyAccessURL: null,

// GetJava page


// Apple redirect page


// mime-type of the DeployToolkit plugin object

oldMimeType: 'application/npruntime-scriptable-plugin;DeploymentToolkit',

mimeType: 'application/java-deployment-toolkit',
/* location of the Java Web Start launch button graphic is right next to
 * deployJava.js at:
 * http://java.com/js/webstart.png
 * Use protocol less url here for http/https support
 */
launchButtonPNG: getWebStartLaunchIconURL(),

browserName: null,
browserName2: null,

/**
 * Returns an array of currently-installed JRE version strings.
 * Version strings are of the form #.#[.#[_.#]], with the function returning
 * as much version information as it can determine, from just family
 * versions ("1.4.2", "1.5") through the full version ("1.5.0_06").
 *
 * Detection is done on a best-effort basis. Under some circumstances
 * only the highest installed JRE version will be detected, and
 * JREs older than 1.4.2 will not always be detected.
 */
getJREs: function() {
    var list = new Array();
    if (this.isPluginInstalled()) {
        var plugin = this.getPlugin();
        var VMs = plugin.jvms;
        for (var i = 0; i < VMs.getLength(); i++) {
            list[i] = VMs.get(i).version;
        }
    } else {
        var browser = this.getBrowser();
        if (browser == 'MSIE') {
            if (this.testUsingActiveX('1.7.0')) {
                list[0] = '1.7.0';
            } else if (this.testUsingActiveX('1.6.0')) {
                list[0] = '1.6.0';
            } else if (this.testUsingActiveX('1.5.0')) {
                list[0] = '1.5.0';
            } else if (this.testUsingActiveX('1.4.2')) {
                list[0] = '1.4.2';
            } else if (this.testForMSVM()) {
                list[0] = '1.1';
            } else if (browser == 'Netscape Family') {
                this.getJPIVersionUsingMimeType();
                if (this.firefoxJavaVersion != null) {
                    list[0] = this.firefoxJavaVersion;
                }
            }
        }
    }
    return list;
}
list[0] = this.firefoxJavaVersion;
} else if (this.testUsingMimeTypes('1.7')) {
    list[0] = '1.7.0';
} else if (this.testUsingMimeTypes('1.6')) {
    list[0] = '1.6.0';
} else if (this.testUsingMimeTypes('1.5')) {
    list[0] = '1.5.0';
} else if (this.testUsingMimeTypes('1.4.2')) {
    list[0] = '1.4.2';
} else if (this.browserName2 == 'Safari') {
    if (this.testUsingPluginsArray('1.7.0')) {
        list[0] = '1.7.0';
    } else if (this.testUsingPluginsArray('1.6')) {
        list[0] = '1.6.0';
    } else if (this.testUsingPluginsArray('1.5')) {
        list[0] = '1.5.0';
    } else if (this.testUsingPluginsArray('1.4.2')) {
        list[0] = '1.4.2';
    }
}
if (this.debug) {
    for (var i = 0; i < list.length; ++i) {
        alert('We claim to have detected Java SE ' + list[i]);
    }
}
return list;
}

/**
 * Triggers a JRE installation. The exact effect of triggering an
 * installation varies based on platform, browser, and if the
 * Deployment Toolkit plugin is installed.
 *
 * The requestVersion string is of the form #.[#.[#[_#]]][+]*.
 * which includes strings such as "1.4", "1.5.0***", and "1.6.0_02+".
 * A star (*) means "any version starting within this family" and
 * a plus (+) means "any version greater or equal to this".
 * "1.5.0***" * matches 1.5.0_06 but not 1.6.0_01, whereas
 * "1.5.0++" matches both.
 *
 * installCallback is an optional argument which holds a reference
 * to a javascript callback function for reporting install status.
 *
 * If the Deployment Toolkit plugin is not present, this will just call
installJRE: function(requestVersion, installCallback) {
    var ret = false;
    if (this.isPluginInstalled() && this.isAutoInstallEnabled()) {
        var installSucceeded = false;
        if (this.isCallbackSupported()) {
            installSucceeded = this.getPlugin().installJRE(requestVersion, installCallback);
        } else {
            installSucceeded = this.getPlugin().installJRE(requestVersion);
        }
        if (installSucceeded) {
            this.refresh();
            if (this.returnPage != null) {
                document.location = this.returnPage;
            }
        }
        return installSucceeded;
    } else {
        return this.installLatestJRE();
    }
},

isAutoInstallEnabled: function() {
    return this.isPluginInstalled() &&
    (!('MSIE' != this.browserName ||
    this.compareVersionToPattern(this.getPlugin().version,
    ['10', '0', '0'], false, true));
},

isCallbackSupported: function() {
    return this.isPluginInstalled() &&
    this.compareVersionToPattern(this.getPlugin().version,
    ['10', '2', '0'], false, true);
/**
 * Triggers a JRE installation. The exact effect of triggering an
 * installation varies based on platform, browser, and if the
 * Deployment Toolkit plugin is installed.
 *
 * In the simplest case, the browser window will be redirected to the
 * java.com JRE installation page, and (if possible) a redirect back to
 * the current URL upon successful installation. The return redirect is
 * not always possible, as the JRE installation may require the browser to
 * be restarted.
 *
 * installCallback is an optional argument which holds a reference
 * to a javascript callback function for reporting install status.
 *
 * In the best case (when the Deployment Toolkit plugin is present), this
 * function will immediately cause a progress dialog to be displayed
 * as the JRE is downloaded and installed.
 */

installLatestJRE: function(installCallback) {
  if (this.isPluginInstalled() && this.isAutoInstallEnabled()) {
    var installSucceeded = false;
    if (this.isCallbackSupported()) {
      installSucceeded = this.getPlugin().installLatestJRE(installCallback);
    } else {
      installSucceeded = this.getPlugin().installLatestJRE();
    }
    if (installSucceeded) {
      this.refresh();
      if (this.returnPage != null) {
        document.location = this.returnPage;
      }
    }
    return installSucceeded;
  } else {
    var browser = this.getBrowser();
    var platform = navigator.platform.toLowerCase();
    if ((this.EAInstallEnabled == 'true') &&
        (platform.indexOf('win') != -1) &&
        (this.EarlyAccessURL != null)) {
      this.preInstallJREList = this.getJREs();
      if (this.returnPage != null) {
        this.myInterval =
        setInterval("deployJava.poll()", 3000);
      }
    }
  }
}
location.href = this.EarlyAccessURL;

// we have to return false although there may be an install
// in progress now, when complete it may go to return page
return false;
} else {
  if (browser == 'MSIE') {
    return this.IEInstall();
  } else if (browser == 'Netscape Family') {
    return this.FFInstall();
  } else {
    location.href = this.getJavaURL +
    ((this.returnPage != null) ?
    ('&returnPage=' + this.returnPage) : '') +
    ((this.locale != null) ?
    ('&locale=' + this.locale) : '') +
    ((this.brand != null) ?
    ('&brand=' + this.brand) : '');
  }
  // we have to return false although there may be an install
  // in progress now, when complete it may go to return page
  return false;
}
}

/**
 * Ensures that an appropriate JRE is installed and then runs an applet.
 * minimumVersion is of the form #[.[.][_#]], and is the minimum
 * JRE version necessary to run this applet. minimumVersion is optional,
 * defaulting to the value "1.1" (which matches any JRE).
 * If an equal or greater JRE is detected, runApplet() will call
 * writeAppletTag(attributes, parameters) to output the applet tag,
 * otherwise it will call installJRE(minimumVersion + ' + ');
 * After installJRE() is called, the script will attempt to detect that the
 * JRE installation has completed and begin running the applet, but there
 * are circumstances (such as when the JRE installation requires a browser
 * restart) when this cannot be fulfilled.
 * As with writeAppletTag(), this function should only be called prior to
 * the web page being completely rendered. Note that version wildcards
 * (star (*) and plus (+)) are not supported, and including them in the
 * minimumVersion will result in an error message.
 */
runApplet: function(attributes, parameters, minimumVersion) {
if (minimumVersion == 'undefined' || minimumVersion == null) {
    minimumVersion = '1.1';
}

var regex = "^\d+(?:\.\d+)?\d+((?:_(\d+))?)$";

var matchData = minimumVersion.match(regex);

if (this.returnPage == null) {
    // if there is an install, come back here and run the applet
    this.returnPage = document.location;
}

if (matchData != null) {
    var browser = this.getBrowser();
    if (!(browser == '?' || (Safari != this.browserName2))) {
        if (this.versionCheck(minimumVersion + '+')) {
            this.writeAppletTag(attributes, parameters);
        } else if (this.installJRE(minimumVersion + '+')) {
            // after successful install we need to refresh page to pick
            // up new plugin
            this.refresh();
            location.href = document.location;
            this.writeAppletTag(attributes, parameters);
        }
    } else {
        // for unknown or Safari - just try to show applet
        this.writeAppletTag(attributes, parameters);
    }
} else {
    if (this.debug) {
        alert('Invalid minimumVersion argument to runApplet():' + minimumVersion);
    }
}
},

/**
 * Outputs an applet tag with the specified attributes and parameters, where
 * both attributes and parameters are associative arrays. Each key/value
 * pair in attributes becomes an attribute of the applet tag itself, while
 * key/value pairs in parameters become <PARAM> tags. No version checking
 * or other special behaviors are performed; the tag is simply written to
 * the page using document.writeln().
 * As document.writeln() is generally only safe to use while the page is
 * being rendered, you should never call this function after the page
* has been completed.
*/
writeAppletTag: function(attributes, parameters) {
var startApplet = '<' + 'applet ';
var params = '';
var endApplet = '<' + '/' + 'applet' + '>';
var addCodeAttribute = true;
if (null == parameters || typeof parameters != 'object') {
parameters = new Object();
}
for (var attribute in attributes) {
if (! isValidAppletAttr(attribute)) {
parameters[attribute] = attributes[attribute];
} else {
startApplet += (' ' +attribute+ '="' +attributes[attribute] + '"');
if (attribute == 'code') {
addCodeAttribute = false;
}
}
}
var codebaseParam = false;
for (var parameter in parameters) {
if (parameter == 'codebase_lookup') {
codebaseParam = true;
}
// Originally, parameter 'object' was used for serialized
// applets, later, to avoid confusion with object tag in IE
// the 'java_object' was added. Plugin supports both.
if (parameter == 'object' || parameter == 'java_object' ||
parameter == 'java_code' ) {
addCodeAttribute = false;
}
params += '<param name="' + parameter + '" value="' +
parameters[parameter] + '"/>';
}
if (!codebaseParam) {
params += '<param name="codebase_lookup" value="false"/>';
}
if (addCodeAttribute) {
startApplet += (' code="dummy"');
}
startApplet += '>';
document.write(startApplet + '\n' + params + '\n' + endApplet);

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/**
 * Returns true if there is a matching JRE version currently installed
 * (among those detected by getJREs()). The versionPattern string is
 * of the form #[#.#[#.#]][+*], which includes strings such as "1.4",
 * "1.5.0*", and "1.6.0_02+".
 * A star (*) means "any version within this family" and a plus (+) means
 * "any version greater or equal to the specified version". "1.5.0*"
 * matches 1.5.0.06 but not 1.6.0.01, whereas "1.5.0+" matches both.
 *
 * If the versionPattern does not include all four version components
 * but does not end with a star or plus, it will be treated as if it
 * ended with a star. "1.5" is exactly equivalent to "1.5*", and will
 * match any version number beginning with "1.5".
 *
 * If getJREs() is unable to detect the precise version number, a match
 * could be ambiguous. For example if getJREs() detects "1.5", there is
 * no way to know whether the JRE matches "1.5.0.06+". versionCheck()
 * compares only as much of the version information as could be detected,
 * so versionCheck("1.5.0.06+") would return true in in this case.
 *
 * Invalid versionPattern will result in a JavaScript error alert.
 * versionPatterns which are valid but do not match any existing JRE
 * release (e.g. "32.65+") will always return false.
 */

versionCheck: function(versionPattern)
{
    var index = 0;
    var regex = "^(\d+)(?:\.(\d+)(?:\.(\d+)(?:_(\d+))?)?)?(\*|\+)?$";

    var matchData = versionPattern.match(regex);

    if (matchData != null) {
        // default is exact version match
        // examples:
        //  local machine has 1.7.0.04 only installed
        //  exact match request is "1.7.0.05":  return false
        //  family match request is "1.7.0*":  return true
        //  minimum match request is "1.6+":  return true
        var familyMatch = false;
        var minMatch = false;

        var patternArray = new Array();

        for (var i = 1; i < matchData.length; ++i) {
            // browser dependency here.
// Fx sets 'undefined', IE sets '' string for unmatched groups
if ((typeof matchData[i] == 'string') && (matchData[i] != '')) {
    patternArray[index] = matchData[i];
    index++;
}
}

if (patternArray[patternArray.length-1] == '+') {
    // + specified in request - doing a minimum match
    minMatch = true;
    familyMatch = false;
    patternArray.length--;
} else if (patternArray[patternArray.length-1] == '*') {
    // * specified in request - doing a family match
    minMatch = false;
    familyMatch = true;
    patternArray.length--;
} else if (patternArray.length < 4) {
    // versionPattern does not include all four version components
    // and does not end with a star or plus, it will be treated as
    // if it ended with a star. (family match)
    minMatch = false;
    familyMatch = true;
}

var list = this.getJREs();
for (var i = 0; i < list.length; ++i) {
    if (this.compareVersionToPattern(list[i], patternArray, familyMatch, minMatch)) {
        return true;
    }
}

return false;
} else {
    alert('Invalid versionPattern passed to versionCheck: ' + versionPattern);
    return false;
}
}.

/**
 * Returns true if an installation of Java Web Start of the specified
 * minimumVersion can be detected. minimumVersion is optional, and
 * if not specified, '1.4.2' will be used.
 * (Versions earlier than 1.4.2 may not be detected.)
 */
isWebStartInstalled: function(minimumVersion) {

    var browser = this.getBrowser();
    if ((browser == '?') || ('Safari' == this.browserName2)) {
        // we really don't know - better to try to use it than reinstall
        return true;
    }

    if (minimumVersion == 'undefined' || minimumVersion == null) {
        minimumVersion = '1.4.2';
    }

    var retval = false;
    var regex = "^(\d+)(?:\.(\d+)(?:\.(\d+)(?:_(\d+))?)?)?$";
    var matchData = minimumVersion.match(regex);

    if (matchData != null) {
        retval = this.versionCheck(minimumVersion + '+');
    } else {
        if (this.debug) {
            alert('Invalid minimumVersion argument to isWebStartInstalled(): ' + minimumVersion);
        }
        retval = this.versionCheck('1.4.2+');
    }

    return retval;
},

// obtain JPI version using navigator.mimeTypes array
// if found, set the version to this.firefoxJavaVersion
getJPIVersionUsingMimeType: function() {
    // Walk through the full list of mime types.
    for (var i = 0; i < navigator.mimeTypes.length; ++i) {
        var s = navigator.mimeTypes[i].type;
        // The jpi-version is the plug-in version.  This is the best
        // version to use.
        var m = s.match(/^application\//x-java-applet;jpi-version=(.*)$/);
        if (m != null) {
            this.firefoxJavaVersion = m[1];
            // Opera puts the latest sun JRE last not first
            if ('Opera' != this.browserName2) {
                break;
            }
        }
    }
},

// launch the specified JNLP application using the passed in jnlp file
// the jnlp file does not need to have a codebase
launchWebStartApplication: function(jnlp) {
    var uaString = navigator.userAgent.toLowerCase();

    this.getJPIVersionUsingMimeType();

    // make sure we are JRE 7 or above
    if (this.isWebStartInstalled('1.7.0') == false) {

        // perform latest JRE auto-install
        if (((this.installJRE('1.7.0+') == false) ||
            ((this.isWebStartInstalled('1.7.0') == false)) ) {
            return false;
        }
    }

    var jnlpDocbase = null;

    // use document.documentURI for docbase
    if (document.documentURI) {
        jnlpDocbase = document.documentURI;
    }

    // fallback to document.URL if documentURI not available
    if (jnlpDocbase == null) {
        jnlpDocbase = document.URL;
    }

    var browser = this.getBrowser();

    var launchTag;

    if (browser == 'MSIE') {
        launchTag = '<' +
            'object classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93"' +
            'width="0" height="0">' +
            '<' + 'PARAM name="launchjnlp" value="' + jnlp + '"' + ' />' +
            '<' + 'PARAM name="docbase" value="' + jnlpDocbase + '"' + ' />' +
            '<' + '/' + 'object' + '>
    } else if (browser == 'Netscape Family') {

        launchTag = '<' +
            'embed type="application/x-java-applet;jpi-version=' +
            this.firefoxJavaVersion + '"' +
            'width="0" height="0"' +
            'object tag="application/x-java-applet;jpi-version=\"' +
            this.javaVersion + \""'
    } else {

        launchTag = '<' +
            'object classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93"' +
            'width="0" height="0">' +
            '<' + 'PARAM name="launchjnlp" value="' + jnlp + '"' + ' />' +
            '<' + 'PARAM name="docbase" value="' + jnlpDocbase + '"' + ' />' +
            '<' + '/' + 'object' + '>
    }

    // this requires JRE 7 or above to work
    // if machine has no JRE 7 or above, we will try to auto-install and then launch
    // (function will return false if JRE auto-install failed)
'launchjnlp="" + jnlp + "" +
'docbase="" + jnlpDocbase + "" +
' />';
}

if (document.body == 'undefined' || document.body == null) {
    document.write(launchTag);
    // go back to original page, otherwise current page becomes blank
    document.location = jnlpDocbase;
} else {
    var divTag = document.createElement("div");
    divTag.id = "div1";
    divTag.style.position = "relative";
    divTag.style.left = "-10000px";
    divTag.style.margin = "0px auto";
    divTag.className ="dynamicDiv";
    divTag.innerHTML = launchTag;
    document.body.appendChild(divTag);
}
}

createWebStartLaunchButtonEx: function(jnlp, minimumVersion) {

    if (this.returnPage == null) {
        // if there is an install, come back and run the jnlp file
        this.returnPage = jnlp;
    }

    var url = 'javascript:deployJava.launchWebStartApplication(" + jnlp + 
');

    document.write('<a href="' + url + "' onMouseOver="window.status=''; return true;">
        <img src="' + this.launchButtonPNG + '" border='0' />
    </a>);
},

/**
 * Outputs a launch button for the specified JNLP URL. When clicked, the
 * button will ensure that an appropriate JRE is installed and then launch
 * the JNLP application. minimumVersion is of the form #[#.#[#._#]]#, and
 * is the minimum JRE version necessary to run this JNLP application.
 * minimumVersion is optional, and if it is not specified, '1.4.2'
 * will be used.
 * If an appropriate JRE or Web Start installation is detected,
 * the JNLP application will be launched, otherwise installLatestJRE()
* will be called.
*
* After installLatestJRE() is called, the script will attempt to detect
* that the JRE installation has completed and launch the JNLP application,
* but there are circumstances (such as when the JRE installation
* requires a browser restart) when this cannot be fulfilled.
*/
createWebStartLaunchButton: function(jnlp, minimumVersion) {
if (this.returnPage == null) {
// if there is an install, come back and run the jnlp file
this.returnPage = jnlp;
}
var url = 'javascript:' +
'if (!deployJava.isWebStartInstalled(&quot;' +
minimumVersion + '&quot;)) {' +
'if (deployJava.installLatestJRE()) {' +
'if (deployJava.launch(&quot;' + jnlp + '&quot;)) {}' +
'}' +
'} else {' +
'if (deployJava.launch(&quot;' + jnlp + '&quot;)) {}' +
'}';
document.write('<' + 'a href="' + url +
'" onMouseOver="window.status=\'\'; ' +
'return true;"><' + 'img ' +
'src="' + this.launchButtonPNG + '" ' +
'border="0" /><' + '/' + 'a' + '>');
},

/**
* Launch a JNLP application, (using the plugin if available)
*/
launch: function(jnlp) {
/*
* Using the plugin to launch Java Web Start is disabled for the time being
*/
document.location=jnlp;
return true;
},

/*
* returns true if the ActiveX or XPI plugin is installed
*/
isPluginInstalled: function() {

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var plugin = this.getPlugin();
if (plugin && plugin.jvms) {
    return true;
} else {
    return false;
}
}

/*
* returns true if the plugin is installed and AutoUpdate is enabled
*/
isAutoUpdateEnabled: function() {
    if (this.isPluginInstalled()) {
        return this.getPlugin().isAutoUpdateEnabled();
    }
    return false;
}

/*
* sets AutoUpdate on if plugin is installed
*/
setAutoUpdateEnabled: function() {
    if (this.isPluginInstalled()) {
        return this.getPlugin().setAutoUpdateEnabled();
    }
    return false;
}

/*
* sets the preferred install type : null, online, kernel
*/
setInstallerType: function(type) {
    this.installType = type;
    if (this.isPluginInstalled()) {
        return this.getPlugin().setInstallerType(type);
    }
    return false;
}

/*
* sets additional package list - to be used by kernel installer
*/
setAdditionalPackages: function(packageList) {
    if (this.isPluginInstalled()) {
        return this.getPlugin().setAdditionalPackages(
            packageList);
    }
    return false;
/*
 * sets preference to install Early Access versions if available
 */
setEarlyAccess: function(enabled) {
    this.EAInstallEnabled = enabled;
},

/*
 * Determines if the next generation plugin (Plugin II) is default
 */
isPlugin2: function() {
    if (this.isPluginInstalled()) {
        if (this.versionCheck('1.6.0_10+')) {
            try {
                return this.getPlugin().isPlugin2();
            } catch (err) {
                // older plugin w/o isPlugin2() function -
            }
        }
        return false;
    },

allowPlugin: function() {
    this.getBrowser();

    // Safari and Opera browsers find the plugin but it
    // doesn't work, so until we can get it to work - don't use it.
    var ret = ('Safari' != this.browserName2 &&
        'Opera' != this.browserName2);

    return ret;
},

getPlugin: function() {
    this.refresh();

    var ret = null;
    if (this.allowPlugin()) {
        ret = document.getElementById('deployJavaPlugin');
    }
    return ret;
},

compareVersionToPattern: function(version, patternArray,
    familyMatch, minMatch) {

if (version == undefined || patternArray == undefined) {
    return false;
}

var regex = "^\d+(?:\.\d+)?(?:(?:_\d+))?$";
var matchData = version.match(regex);

if (matchData != null) {
    var index = 0;
    var result = new Array();

    for (var i = 1; i < matchData.length; ++i) {
        if ((typeof matchData[i] == 'string') && (matchData[i] != ''))
        {
            result[index] = matchData[i];
            index++;
        }
    }

    var l = Math.min(result.length, patternArray.length);

    // result contains what is installed in local machine
    // patternArray is what is being requested by application
    if (minMatch) {
        // minimum version match, return true if what we have (installed)
        // is greater or equal to what is requested.  false otherwise.
        for (var i = 0; i < l; ++i) {
            if (result[i] < patternArray[i]) {
                return false;
            } else if (result[i] > patternArray[i]) {
                return true;
            }
        }
        return true;
    } else {
        for (var i = 0; i < l; ++i) {
            if (result[i] != patternArray[i]) return false;
        }
        if (familyMatch) {
            // family match - return true as long as we have
            // (installed) matches up to the request pattern
            return true;
        } else {
            // exact match
            // result and patternArray needs to have exact same content
            return (result.length == patternArray.length);
        }
    }
} else {
return false;
);
},

getBrowser: function() {

if (this.browserName == null) {
  var browser = navigator.userAgent.toLowerCase();

  if (this.debug) {
    alert('userAgent -> ' + browser);
  }

  // order is important here. Safari userAgent contains mozilla,
  // and Chrome userAgent contains both mozilla and safari.
  if (browser.indexOf('msie') != -1) {
    this.browserName = 'MSIE';
    this.browserName2 = 'MSIE';
  } else if (browser.indexOf('iphone') != -1) {
    // this included both iPhone and iPad
    this.browserName = 'Netscape Family';
    this.browserName2 = 'iPhone';
  } else if (browser.indexOf('firefox') != -1) {
    this.browserName = 'Netscape Family';
    this.browserName2 = 'Firefox';
  } else if (browser.indexOf('chrome') != -1) {
    this.browserName = 'Netscape Family';
    this.browserName2 = 'Chrome';
  } else if (browser.indexOf('safari') != -1) {
    this.browserName = 'Netscape Family';
    this.browserName2 = 'Safari';
  } else if (browser.indexOf('mozilla') != -1) {
    this.browserName = 'Netscape Family';
    this.browserName2 = 'Other';
  } else if (browser.indexOf('opera') != -1) {
    this.browserName = 'Netscape Family';
    this.browserName2 = 'Opera';
  } else {
    this.browserName = '?';
    this.browserName2 = 'unknown';
  }

  if (this.debug) {
    alert ('Detected browser name:'+ this.browserName +
       ', ' + this.browserName2);
  }
}
return this.browserName;
},

testUsingActiveX: function(version) {
    var objectName = 'JavaWebStart.isInstalled.' + version + '.0';

    // we need the typeof check here for this to run on FF/Chrome
    // the check needs to be in place here - cannot even pass ActiveXObject
    // as arg to another function
    if (typeof ActiveXObject == 'undefined' || !ActiveXObject) {
        if (this.debug) {
            alert ('Browser claims to be IE, but no ActiveXObject object?');
        }
        return false;
    }

    try {
        return (new ActiveXObject(objectName) != null);
    } catch (exception) {
        return false;
    },
},

testForMSVM: function() {
    var clsid = '{08B0E5C0-4FCB-11CF-AAA5-00401C608500}';

    if (typeof oClientCaps != 'undefined') {
        var v = oClientCaps.getComponentVersion(clsid, "ComponentID");
        if ((v == '') || (v == '5,0,5000,0')) {
            return false;
        } else {
            return true;
        } else {
            return false;
        }
    },
},

testUsingMimeTypes: function(version) {
    if (!navigator.mimeTypes) {
        if (this.debug) {
            alert ('Browser claims to be Netscape family, but no mimeTypes[] array?');
        }
        return false;
    }
for (var i = 0; i < navigator.mimeTypes.length; ++i) {
    s = navigator.mimeTypes[i].type;
    var m = s.match(/application/x-java-applet;version=(1.8|1.7|1.6|1.5|1.4.2)/);
    if (m != null) {
        if (this.compareVersions(m[1], version)) {
            return true;
        }
    }
}
return false;

function testUsingPluginsArray( version ) {
    if (!navigator.plugins || (!navigator.plugins.length)) {
        return false;
    }
    var platform = navigator.platform.toLowerCase();
    for (var i = 0; i < navigator.plugins.length; ++i) {
        s = navigator.plugins[i].description;
        if (s.search(/Java Switchable Plug-in (Cocoa)/) !== -1) {
            // Safari on MAC
            if (this.compareVersions(“1.5.0”, version)) {
                return true;
            }
        } else if (s.search(/Java/) !== -1) {
            if (platform.indexOf(“win”) !== -1) {
                // still can’t tell - opera, safari on windows
                // return true for 1.5.0 and 1.6.0
                if (this.compareVersions(“1.5.0”, version) ||
                    this.compareVersions(“1.6.0”, version)) {
                    return true;
                }
            }
        }
    }
    // if above doesn’t work on Apple or Windows, just allow 1.5.0
    if (this.compareVersions(“1.5.0”, version)) {
        return true;
    }
    return false;
}

IEInstall: function() {
}
location.href = this.getJavaURL +
((this.returnPage != null) ?
('&returnPage=' + this.returnPage) +
)((this.locale != null) ?
('&locale=' + this.locale) +
)((this.brand != null) ? ('&brand=' + this.brand) : ''');

// should not actually get here
return false;
}

done: function (name, result) {
}

FFInstall: function() {

location.href = this.getJavaURL +
((this.returnPage != null) ?
('&returnPage=' + this.returnPage) +
)((this.locale != null) ?
('&locale=' + this.locale) +
)((this.brand != null) ? ('&brand=' + this.brand) : '' ';' +
)((this.installType != null) ?
('&type=' + this.installType) : ''');

// should not actually get here
return false;
},

// return true if 'installed' (considered as a JRE version string) is
// greater than or equal to 'required' (again, a JRE version string).
compareVersions: function(installed, required) {

var a = installed.split('.');
var b = required.split('.');

for (var i = 0; i < a.length; ++i) {
  a[i] = Number(a[i]);
}
for (var i = 0; i < b.length; ++i) {
  b[i] = Number(b[i]);
}
if (a.length == 2) {
  a[2] = 0;
}

if (a[0] > b[0]) return true;
if (a[0] < b[0]) return false;
if (a[1] > b[1]) return true;
if (a[1] < b[1]) return false;
if (a[2] > b[2]) return true;
if (a[2] < b[2]) return false;
return true;
},

enableAlerts: function() {
  // reset this so we can show the browser detection
  this.browserName = null;
  this.debug = true;
},
poll: function() {
  this.refresh();
  var postInstallJREList = this.getJREs();

  if (((this.preInstallJREList.length == 0) &&
      (postInstallJREList.length != 0)) {
    clearInterval(this.myInterval);
    if (this.returnPage != null) {
      location.href = this.returnPage;
    }
  }

  if (((this.preInstallJREList.length != 0) &&
      (postInstallJREList.length != 0) &&
      (this.preInstallJREList[0] != postInstallJREList[0])) { 
    clearInterval(this.myInterval);
    if (this.returnPage != null) {
      location.href = this.returnPage;
    }
  }
},

writePluginTag: function() {
  var browser = this.getBrowser();

  if (browser == 'MSIE') {
    document.write('<' +
      'object classid="clsid:CAFEFAC-DEC7-0000-0001-ABCDeffedCBA" ' +
var browser = this.getBrowser();
if (browser == 'Netscape Family' && this.allowPlugin()) {
  var plugin = document.getElementById('deployJavaPlugin');
  // only do this again if no plugin
  if (plugin == null) {
    this.writeEmbedTag();
  }
}

writeEmbedTag: function() {
  var written = false;
  if (navigator.mimeTypes != null) {
    for (var i=0; i < navigator.mimeTypes.length; i++) {
      if (navigator.mimeTypes[i].type == this.mimeType) {
        if (navigator.mimeTypes[i].enabledPlugin) {
          document.write('<' +
            'embed id="deployJavaPlugin" type="' +
            this.mimeType + '" hidden="true" />');
          written = true;
        }
      }
    }
  } // if we didn't find new mimeType, look for old mimeType
  if (!written) for (var i=0; i < navigator.mimeTypes.length; i++) {
    if (navigator.mimeTypes[i].type == this.oldMimeType) {
      if (navigator.mimeTypes[i].enabledPlugin) {
        document.write('<' +
          'embed id="deployJavaPlugin" type="" +
          this.oldMimeType + '" hidden="true" />');
      }
    }
  }
}
}; // deployJava object

rv.writePluginTag();
if (rv.locale == null) {
    var loc = null;

    if (loc == null) try {
        loc = navigator.userLanguage;
    } catch (err) { }

    if (loc == null) try {
        loc = navigator.systemLanguage;
    } catch (err) { }

    if (loc == null) try {
        loc = navigator.language;
    } catch (err) { }

    if (loc !== null) {
        loc.replace("-", ".")
        rv.locale = loc;
    }
}

return rv;
}();

1.321 device-mapper-multipath 0.4.9 :111.el7
1.321.1 Available under license :

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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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This option is useful when you wish to copy part of the code of
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.322 device-mapper-persistent-data 0.7.0
:0.1.rc6.el7

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

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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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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1.342 e2fsprogs 1.42.9 :10.el7

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

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

From the original distribution:

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

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

image:$(BSD_LIB)
EXT2ED is hereby placed under the terms of the GNU General Public License.
Follows the GNU license.

Gadi Oxman, August 1995

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1.362 error_prone_annotations 2.2.0

1.363 error_prone_annotations 2.3.2

1.364 error_prone_annotations 2.2.0

1.365 es6-enum 1.1.0

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AppleJavaExtensions
v 1.2


This is a pluggable jar of stub classes representing the new Apple
eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

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1.382 fipscheck 1.4.1 :6.el7

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

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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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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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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1.394 gawk 4.0.2 :4.el7_3.1

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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
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1.397 gdb 7.6.1 :100.el7

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Version 2, June 1991
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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# /usr/bin/env python

# Copyright (C) 2011-2013 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
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"""copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.
    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. ?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """

    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False
def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"): 
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)
    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print 
        print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename
    
    ###################################################################
    # # Some constants, placed at the end because they take up a lot of room.
    # # The actual value of these constants is not significant to the understanding
    # # of the script.
    # #
    ###################################################################

    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
    # or test cases which must be sensitive to line numbering).
    #
    # Filenames are relative to the root directory.
    EXCLUDE_LIST = ( 
        'gdb/CONTRIBUTE',
        'gdb/gnulib'
    )

    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
    # or test cases which must be sensitive to line numbering).
    #
    # Matches any file or directory name anywhere. Use with caution.
    # This is mostly for files that can be found in multiple directories.
    # Eg: We want all files named COPYING to be left untouched.
    EXCLUDE_ALL_LIST = ( 
        "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c", 
        "fdl.texi", "gpl.texi", "aclocal.m4", 
    )
# The list of files to update by hand.

BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only fixing the first one it finds, so we need to finish the update by hand.

MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/*",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcpro.co", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/td-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phrb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",}
if __name__ == "__main__":
    main()
BEGIN{
   FS="",
   print "/* ==> Do not modify this file!! */
   " -*- buffer-read-only: t -*- vi ":
   :set ro:"
   print " It is created automatically by copying.awk."
   print " Modify copying.awk instead. <= */";
print ""
print "#include \"defs.h\""
print "#include \"command.h\""
print "#include \"gdbcmd.h\"
print ""
print "static void show_copying_command (char *, int);"
print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void":
print "show_copying_command (char *ignore, int from_tty);"
print "{";
NR == 1;/^[ ]*15\. Disclaimer of Warranty\[ ]*$/{
if ($0 ~ //)
{
    printf " printf_filtered (\"\n\n\n\n;"
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\[ ]*$/)
{
    printf " printf_filtered (\"\n;"
for (i = 1; i < NF; i++)
printf "%s\n", $i;
    printf "%s\n\n\n", $NF;
}
}
/^[ ]*15\. Disclaimer of Warranty\[ ]*$/{
    print ");"
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty);"
print "{";
}
/^[ ]*15\. Disclaimer of Warranty\[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/{
if (! ($0 ~ /[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
    printf " printf_filtered (\"\n;"
for (i = 1; i < NF; i++)
printf "%s\n", $i;
    printf "%s\n\n\n", $NF;
}
}
END{
    print ");"
print "";
print "void"
print "_initialize_copying (void)";
print "{";
print " add_cmd ("copying", no_set_class, show_copying_command,";
print " (_("Conditions for redistributing copies of GDB."),";
print " &showlist));";
print " add_cmd ("warranty", no_set_class, show_warranty_command,";
print " (_("Various kinds of warranty you do not have."),";
print " &showlist));";
print "}";
print " /* For old-timers, allow "info copying", etc. */";
print " add_info ("copying", show_copying_command,";
print " (_("Conditions for redistributing copies of GDB."));";
print " add_info ("warranty", show_warranty_command,";
print " (_("Various kinds of warranty you do not have."));";
print "]";
}
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@ccenter Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

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@enumerate 0
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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the `with@dots{ }Texts.` line with this:

@example
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end example

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fd1f522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait4wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/sigvec.c b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File nameCallerSyscall name# argsStrong nameWeak names
+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2__flockflock
getdents-getdirententries4__getdirententriesgetdirententries
getdtsz-getdtablesize0__getdtablesizegetdtablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
-sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
-sigstack-sigstack2sigstack
-sigvec-sigvec3__sigvecsигvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c

diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c

diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c

diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd4.4/wait3.c>
+##include <sysdeps/unix/bsd/wait3.c>
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1.409 glibc-common 2.17 :260.el7

1.410 gmp 6.0.0 :15.el7

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Version 3, 29 June 2007

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### Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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##

## For details see http://shiftleft.org/papers/vector_aes/ and
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;;
1.414 gobject-introspection 1.50.0 :1.el7

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

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

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

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

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
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1.417 gpm 1.20.7 :5.el7

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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


   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 `xvitview' 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
src/libs/libxutil/XFontName.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

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

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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

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From 0df1a50e41fb12fbeb6709575e5f12d64ed73b66 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH 085/260] * grub-core/loader/i386/bsd.c (grub_netbsd_boot):
Pass pointer to EFI system table.

---
ChangeLog | 5 ++
grub-core/loader/i386/bsd.c | 8 +++++++
includer/grub/i386/netbsd_bootinfo.h | 7 ++++++
3 files changed, 20 insertions(+)
diff --git a/ChangeLog b/ChangeLog
index abf8f4b27..0cdd095a4 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,5 +1,10 @@
2014-06-21  Stephane Rochoy <sheda>
+* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+EFI system table.
+
2014-06-21  Stephane Rochoy <sheda>
+
* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show
EFI system table physical address.
diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109e..8f691e0e2 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
 if (err)
return err;

+ #ifdef GRUB_MACHINE_EFI
+  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+  &grub_efi_system_table,
+  sizeof (grub_efi_system_table));
+  if (err)
+    return err;
+  #endif
+
+
  struct bsd_tag *tag;
  tag_buf_len = 0;

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b40..9b4f46041 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE		10
#define NETBSD_BTINFO_MODULES		11
#define NETBSD_BTINFO_FRAMEBUF		12
+#define NETBSD_BTINFO_USERCONFCOMMANDS  13
+#define NETBSD_BTINFO_EFI	        14

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

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
+  #endif

---

2.13.0

1.431 grubby 8.28 :23.el7

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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

   a) The modified work must itself be a software library.

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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:

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Doug Lea

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10.0.1

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Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

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1.462 hawtbuf 1.11

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The packages:

com.hazelcast.util.collection
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.util QuickMath
com.hazelcast.client.impl.protocol.util UnsafeBuffer
com.hazelcast.client.impl.protocol.util BufferBuilder

contain code originating from the Agrona project
(https://github.com/real-logic/Agrona).

The class com.hazelcast.util.HashUtil contains code originating
from the Koloboke project (https://github.com/OpenHFT/Koloboke).

The class classloading.ThreadLocalLeakTestUtils contains code originating
from the Tomcat project (https://github.com/apache/tomcat).

com.hazelcast.internal.cluster.fd PhiAccrualFailureDetector contains code originating
from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating
from minimal-json project (https://github.com/ralfstx/minimal-json).
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*/

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import org.junit.Test;

/**
 * Abstract Permission Tests.
 */
public abstract class AbstractGenericPermissionTest
    extends PermissionTestSupport {

    @Test
    public void checkReadPermission() {
        new CheckPermission().of("read").against("read").expect(true).run();
    }

    @Test
    public void checkReadPermission_whenAll() {
        new CheckPermission().of("read").against("all").expect(true).run();
    }

    @Test
    public void checkReadPermission_whenOnlyCreateAllowed() {
        new CheckPermission().of("read").against("create").expect(false).run();
    }

    @Test
    public void checkModifyPermission() {
        new CheckPermission().of("modify").against("modify").expect(true).run();
    }

    @Test
    public void checkModifyPermission_whenAll() {
        new CheckPermission().of("modify").against("all").expect(true).run();
    }

    @Test
    public void checkModifyPermission_whenOnlyReadAllowed() {
        new CheckPermission().of("modify").against("read").expect(false).run();
    }

    @Test
    public void checkModifyPermission_whenOnlyReadAndCreateAllowed() {
        new CheckPermission().of("modify").against("read", "create").expect(false).run();
    }

    @Test
    public void checkModifyPermission_whenOnlyReadCreateAndDeleteAllowed() {
        new CheckPermission().of("modify").against("read", "create", "delete").expect(false).run();
    }
@Test
public void checkCreatePermission() {
    new CheckPermission().of("create").against("create").expect(true).run();
}

@Test
public void checkCreatePermission_whenAll() {
    new CheckPermission().of("create").against("all").expect(true).run();
}

@Test
public void checkCreatePermission_whenOnlyReadAllowed() {
    new CheckPermission().of("create").against("read").expect(false).run();
}

@Test
public void checkDestroyPermission() {
    new CheckPermission().of("destroy").against("destroy").expect(true).run();
}

@Test
public void checkDestroyPermission_whenAll() {
    new CheckPermission().of("destroy").against("all").expect(true).run();
}

@Test
public void checkDestroyPermission_whenOnlyReadAllowed() {
    new CheckPermission().of("destroy").against("read").expect(false).run();
}

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*/
package com.hazelcast.security.permission;

import com.hazelcast.test.HazelcastSerialClassRunner;
import com.hazelcast.test.annotation.QuickTest;
import org.junit.Test;
import org.junit.experimental.categories.Category;
import org.junit.runner.RunWith;
import java.security.Permission;
@RunWith(HazelcastSerialClassRunner.class)
@Category(QuickTest.class)
public class UserCodeDeploymentPermissionTest extends PermissionTestSupport {

  @Override
  protected Permission createPermission(String name, String... actions) {
    return new UserCodeDeploymentPermission(actions);
  }

  @Test
  public void checkDeployPermission_whenAll() {
    new CheckPermission().of("deploy").against("deploy").expect(true).run();
  }

  @Test
  public void checkDeployPermission() {
    new CheckPermission().of("deploy").against("all").expect(true).run();
  }

  @Test
  public void checkAllPermission_whenDeploy() {
    new CheckPermission().of("all").against("deploy").expect(true).run();
  }
}

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package com.hazelcast.security.permission;

import com.hazelcast.test.HazelcastSerialClassRunner;
import com.hazelcast.test.annotation.QuickTest;
import org.junit.experimental.categories.Category;
import org.junit.runner.RunWith;
import java.security.Permission;

@RunWith(HazelcastSerialClassRunner.class)
@Category(QuickTest.class)
public class ScheduledExecutorPermissionTest
        extends AbstractGenericPermissionTest {

    @Override
    protected Permission createPermission(String name, String... actions) {
        return new ScheduledExecutorPermission(name, actions);
    }
}

package com.hazelcast.security.permission;

import org.junit.Test;

/**
 * Abstract Map Permission Tests.
 */
public abstract class AbstractMapPermissionTest
    extends PermissionTestSupport {

    protected abstract String[] getActions();

    @Test
    public void willReturnFalseForNoPermOnPut() {
        new CheckPermission().of("put").against("read", "create").expect(false).run();
    }

    @Test
    public void willReturnFalseForNoPermOnListen() {
        new CheckPermission().of("listen").against("read", "create", "put").expect(false).run();
    }

    @Test
    public void willReturnTrueForPermOnPutOn() {
        new CheckPermission().of("put").against("put", "read", "create").expect(true).run();
    }

    @Test
    public void willReturnTrueForPermOnAll() {
        new CheckPermission().of("put").against("all").expect(true).run();
    }

    @Test
    public void willReturnTrueWhenNameUseMatchingWildcard() {
        new CheckPermission()
            .withAllowedName("myDataStructure.*")
            .withRequestedName("myDataStructure.foo")
            .of("put")
            .against(getActions())
            .expect(true).run();
    }

    @Test
    public void willReturnFalseWhenNameUseNonNames() {
        new CheckPermission()
            .withAllowedName("myDataStructure")
            .withRequestedName("myOtherDataStructure")
            .of("put")
            .against(getActions())
            .expect(false).run();
    }
}
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.ICacheService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.flakeidgen.impl.FlakeIdGeneratorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.test.HazelcastSerialClassRunner;
import com.hazelcast.test.annotation.QuickTest;
import com.hazelcast.test.topic.impl.TopicService;
import org.junit.Test;
import org.junit.experimental.categories.Category;
import java.security.Permission;
import static org.junit.Assert.assertNotNull;
import static org.junit.Assert.assertTrue;

@Category(QuickTest.class)
@RunWith(HazelcastSerialClassRunner.class)
@With(QuickTest.class)
public class PermissionTest {

    @Test
    public void testPermission() {
        Permission[] permissions = Permission[].values();
        assertNotNull(permissions);
        assertTrue(permissions.length > 0);
    }
}

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 */
public class ActionConstantsTest {

    @Test(expected = IllegalArgumentException.class)
    public void getPermission_whenNonExistingService() {
        ActionConstants.getPermission("foo", "idon'texist");
    }

    @Test
    public void getPermission_Map() {
        Permission permission = ActionConstants.getPermission("foo", MapService.SERVICE_NAME);

        assertNotNull(permission);
        assertTrue(permission instanceof MapPermission);
    }

    @Test
    public void getPermission_Cache() {
        Permission permission = ActionConstants.getPermission("foo", ICacheService.SERVICE_NAME);

        assertNotNull(permission);
        assertTrue(permission instanceof CachePermission);
    }

    @Test
    public void getPermission_MultiMap() {
        Permission permission = ActionConstants.getPermission("foo", MultiMapService.SERVICE_NAME);

        assertNotNull(permission);
        assertTrue(permission instanceof MultiMapPermission);
    }

    @Test
    public void getPermission_List() {
        Permission permission = ActionConstants.getPermission("foo", ListService.SERVICE_NAME);

        assertNotNull(permission);
        assertTrue(permission instanceof ListPermission);
    }

    @Test
    public void getPermission_Set() {
        Permission permission = ActionConstants.getPermission("foo", SetService.SERVICE_NAME);

        assertNotNull(permission);
        assertTrue(permission instanceof SetPermission);
    }

    @Test
public void getPermission_AtomicLong() {
    Permission permission = ActionConstants.getPermission("foo", AtomicLongService.SERVICE_NAME);
    assertNotNull(permission);
    assertTrue(permission instanceof AtomicLongPermission);
}

@Test
public void getPermission_Semaphore() {
    Permission permission = ActionConstants.getPermission("foo", SemaphoreService.SERVICE_NAME);
    assertNotNull(permission);
    assertTrue(permission instanceof SemaphorePermission);
}

@Test
public void getPermission_Topic() {
    Permission permission = ActionConstants.getPermission("foo", TopicService.SERVICE_NAME);
    assertNotNull(permission);
    assertTrue(permission instanceof TopicPermission);
}

@Test
public void getPermission_Lock() {
    Permission permission = ActionConstants.getPermission("foo", LockService.SERVICE_NAME);
    assertNotNull(permission);
    assertTrue(permission instanceof LockPermission);
}

@Test
public void getPermission_DistributedExecutor() {
    Permission permission = ActionConstants.getPermission("foo", DistributedExecutorService.SERVICE_NAME);
    assertNotNull(permission);
    assertTrue(permission instanceof ExecutorServicePermission);
}

@Test
public void getPermission_IdGenerator() {
    Permission permission = ActionConstants.getPermission("foo", IdGeneratorService.SERVICE_NAME);
    assertNotNull(permission);
    assertTrue(permission instanceof AtomicLongPermission);
}
@Test
class PermissionHelper {
    @Test
    public void getPermission_FlakeIdGenerator() {
        Permission permission = ActionConstants.getPermission("foo", FlakeIdGeneratorService.SERVICE_NAME);
        assertNotNull(permission);
        assertTrue(permission instanceof FlakeIdGeneratorPermission);
    }

    @Test
    public void getPermission_MapReduce() {
        Permission permission = ActionConstants.getPermission("foo", MapReduceService.SERVICE_NAME);
        assertNotNull(permission);
        assertTrue(permission instanceof MapReducePermission);
    }

    @Test
    public void getPermission_ReplicatedMap() {
        Permission permission = ActionConstants.getPermission("foo", ReplicatedMapService.SERVICE_NAME);
        assertNotNull(permission);
        assertTrue(permission instanceof ReplicatedMapPermission);
    }

    @Test
    public void getPermission_AtomicReference() {
        Permission permission = ActionConstants.getPermission("foo", AtomicReferenceService.SERVICE_NAME);
        assertNotNull(permission);
        assertTrue(permission instanceof AtomicReferencePermission);
    }

    @Test
    public void getPermission_CountdownLatch() {
        Permission permission = ActionConstants.getPermission("foo", CountDownLatchService.SERVICE_NAME);
        assertNotNull(permission);
        assertTrue(permission instanceof CountDownLatchPermission);
    }

    @Test
    public void getPermission_Queue() {
        Permission permission = ActionConstants.getPermission("foo", QueueService.SERVICE_NAME);
        assertNotNull(permission);
        assertTrue(permission instanceof QueuePermission);
    }
}
Debe ser un error con el código y la transcripción. Debe ser validada con el código fuente o texto original para asegurar la precisión del código. No se puede determinar el significado del código sin la documentación o contexto adecuado.
CheckPermission of(String requested) {
    this.requested = requested;
    return this;
}

CheckPermission against(String... allowed) {
    this.allowed = allowed;
    return this;
}

CheckPermission expect(boolean expectedResult) {
    this.expectedResult = expectedResult;
    return this;
}

void run() {
    if (requested != null && allowed != null && expectedResult != null) {
        Permission allowedPermissions = createPermission(allowedName, allowed);
        Permission requestedPermission = createPermission(requestedName, requested);

        boolean actualResult = allowedPermissions.implies(requestedPermission);

        assertEquals("Access applied incorrectly for requested action of \" + requestedPermission
                     + \" on permitted permissions of \" + allowedPermissions, expectedResult, actualResult);
    } else {
        fail("Requested and/or allowed and/or expect not set");
    }
}

}/*
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 */

package com.hazelcast.security.permission;
import com.hazelcast.test.HazelcastSerialClassRunner;
import com.hazelcast.test.annotation.QuickTest;
import org.junit.Test;
import org.junit.experimental.categories.Category;
import org.junit.runner.RunWith;
import java.security.Permission;

@RunWith(HazelcastSerialClassRunner.class)
@Category(QuickTest.class)
public class MapPermissionTest
    extends AbstractMapPermissionTest {

    @Override
    protected String[] getActions() {
        return new String[] {
            "put",
            "read",
            "remove",
            "listen",
            "lock",
            "index",
            "intercept",
            "create",
            "destroy",
        };
    }

    @Override
    protected Permission createPermission(String name, String... actions) {
        return new MapPermission(name, actions);
    }

    @Test
    public void willReturnFalseForNoPermOnIndex() {
        new CheckPermission().of("index").against("read", "create", "put", "intercept").expect(false).run();
    }
}

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 * http://www.apache.org/licenses/LICENSE-2.0
 */
package com.hazelcast.security.permission;

import com.hazelcast.test.HazelcastSerialClassRunner;
import com.hazelcast.test.annotation.QuickTest;
import org.junit.experimental.categories.Category;
import org.junit.runner.RunWith;
import java.security.Permission;

@RunWith(HazelcastSerialClassRunner.class)
@Category(QuickTest.class)
public class CardinalityEstimatorPermissionTest extends AbstractGenericPermissionTest {

    @Override
    protected Permission createPermission(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
}

package com.hazelcast.security.permission;

import com.hazelcast.test.HazelcastSerialClassRunner;
import com.hazelcast.test.annotation.QuickTest;
import org.junit.experimental.categories.Category;
import org.junit.runner.RunWith;

import java.security.Permission;

@RunWith(HazelcastSerialClassRunner.class)
@Category(QuickTest.class)
public class CardinalityEstimatorPermissionTest extends AbstractGenericPermissionTest {

    @Override
    protected Permission createPermission(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
}

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 */
import java.security.Permission;

@RunWith(HazelcastSerialClassRunner.class)
@Category(QuickTest.class)
public class CachePermissionTest extends AbstractMapPermissionTest {

    @Override
    protected String[] getActions() {
        return new String[] {
            "put",
            "read",
            "remove",
            "listen",
            "create",
            "destroy",
        };
    }

    @Override
    protected Permission createPermission(String name, String... actions) {
        return new CachePermission(name, actions);
    }
}

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*/

package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.crdt.pncounter.PNCounterService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.flakeidgen.impl.FlakeIdGeneratorService;
import com.hazelcast.internal.usercodedeploymentUserCodeDeploymentService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

@SuppressWarnings("checkstyle:executablestatementcount")
public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
public static final String ACTION_REMOVE = "remove";
public static final String ACTION_LOCK = "lock";
public static final String ACTION_LISTEN = "listen";
public static final String ACTION_RELEASE = "release";
public static final String ACTION_ACQUIRE = "acquire";
public static final String ACTION_PUT = "put";
public static final String ACTION_ADD = "add";
public static final String ACTION_INDEX = "index";
public static final String ACTION_INTERCEPT = "intercept";
public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";
public static final String ACTION_USER_CODE_DEPLOY = "deploy";

private static final String LISTENER_INSTANCE = "instance";
private static final String LISTENER_MEMBER = "member";
private static final String LISTENER_MIGRATION = "migration";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String, PermissionFactory>();

static {

    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });

    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });

    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });

    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });

    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
public Permission create(String name, String... actions) {
    return new SetPermission(name, actions);
}

PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(FlakeIdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(FlakeIdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(UserCodeDeploymentService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new UserCodeDeploymentPermission(actions);
    }
});

PERMISSION_FACTORY_MAP.put(PNCounterService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new PNCounterPermission(name, actions);
    }
});

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

=*/

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*/
package com.hazelcast.security.permission;
import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;
import java.security.Permission;
/**
* TODO: Object Permission
*/
public abstract class InstancePermission extends ClusterPermission {
protected static final int NONE = 0;
protected static final int CREATE = 1;
protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();
protected final int mask;
protected final String actions;
public InstancePermission(String name, String... actions) {
super(name);
if (name == null || "".equals(name)) {
throw new IllegalArgumentException("Permission name is mandatory!");
}
mask = initMask(actions);
final StringBuilder s = new StringBuilder();
for (String action : actions) {
s.append(action).append(" ");
}
// trim the trailing space
if (s.length() > 0) {
s.setLength(s.length() - 1);
}
this.actions = s.toString();
}

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/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {

return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
if (mask != other.mask) {
    return false;
}
return true;
}
*/

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*/

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}
*/

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package com.hazelcast.security.permission;

public class FlakeIdGeneratorPermission extends InstancePermission {

private static final int MODIFY = 4;

private static final int ALL = MODIFY | CREATE | DESTROY;

public FlakeIdGeneratorPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }

    return mask;
}

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 */
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                return null;
            }
        };
    }

    @Override
    public int hashCode() {
        return 37;
    }

    @Override
    public String toString() {
        return '<deny all permissions>";
    }

    @Override
}
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}

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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public AllPermissionsCollection newPermissionCollection(String string) {
        return new AllPermissionsCollection();
    }

}
public String toString() {
    return "<allow all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof AllPermissions;
}

@Override
public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            boolean more = all;
            @Override
            public boolean hasMoreElements() {
                return more;
            }
        }
    }

    @Override
    public boolean hasMoreElements() {
        return more;
    }
}

```java
```
public Permission nextElement() {
    more = false;
    return ALL_PERMISSIONS;
}
}

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
} /*
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 */
package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
                mask |= ACQUIRE;
            } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
                mask |= RELEASE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }

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*/

package com.hazelcast.security.permission;

import com.hazelcast.internal.usercodedeploymentUserCodeDeploymentService;

public class UserCodeDeploymentPermission extends InstancePermission {

private static final int DEPLOY = 4;
private static final int ALL = DEPLOY;

public UserCodeDeploymentPermission(String... actions) {
    super(UserCodeDeploymentService.SERVICE_NAME, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_USER_CODE_DEPLOY.equals(action)) {
            mask |= DEPLOY;
        }
    }

    return mask;
}

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*/
package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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 */

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
extends InstancePermission {

private static final int READ = 4;
private static final int MODIFY = 8;

private static final int ALL = READ | MODIFY | CREATE | DESTROY;

public ScheduledExecutorPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

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 */
package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }

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    */
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
                           || (permission instanceof ClusterPermission);
        if (shouldAdd && !implies(permission)) {
            perms.add(permission);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
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        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            this.perms.addAll(((ClusterPermissionCollection) permissions).perms);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
    add(p);
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }

        return "ClusterPermissionCollection [permClass=" + permClass + "]";
    }
}

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 */
package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }

        return mask;
    }

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     * limitations under the License.
     */
package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }
}

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 */
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}
}
return mask;
}
}

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*/

package com.hazelcast.security.permission;

/**
* To be able to map-reduce from a client in a secure environment
*/
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
    }
}
package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        }
        return mask;
    }
}
if (ActionConstants.ACTION_CREATE.equals(action)) { mask |= CREATE; }
}
return mask;

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) { return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) { mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) { mask |= DESTROY;
    }
    return mask;

package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) { return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) { mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) { mask |= DESTROY;
        }
        return mask;
    }
*/

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* /

package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) { return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) { mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) { mask |= DESTROY;
        }
        return mask;
    }
*/
package com.hazelcast.security.permission;

import java.security.Permission;

/**
 * public class ConfigPermission extends ClusterPermission {

 private static final String CONFIG_PERMISSION_NAME = "<config>";
 private static final String CONFIG_PERMISSION_ACTIONS = "config";

 public ConfigPermission() {
   super(CONFIG_PERMISSION_NAME);
 }

 @Override
 public boolean implies(Permission permission) {
   return getClass() == permission.getClass();
 }

 @Override
 public String getActions() {
   return CONFIG_PERMISSION_ACTIONS;
 }

} /*
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 */
package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {
    
    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {
    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }
}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {
    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }
}
```java
@Override
public PermissionCollection newPermissionCollection() {
    return new ClusterPermissionCollection(getClass());
}

@Override
public int hashCode() {
    if (hashcode == 0) {
        final int prime = 31;
        int result = 1;
        if (getName() == null) {
            result = prime * result + 13;
        } else {
            result = prime * result + getName().hashCode();
        }
        hashcode = result;
    }
    return hashcode;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}

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```

---

Open Source Used In UCCX 12.5
package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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 * */
package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}

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Open Source Used In UCCX 12.5
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            }
        }
        return mask;
    }
}
else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
}
else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}
}
return mask;
}

package com.hazelcast.security.permission;

public class PNCounterPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public PNCounterPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            }
        }
        return mask;
    }

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     */
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;
*/

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* *
* @see com.hazelcast.security.jsm *
*/
package com.hazelcast.security.permission;

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package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_INDEX.equals(action)) {
                mask |= INDEX;
            } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
                mask |= INTERCEPT;
            }
        }

        return mask;
    }
}
package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
else if (ActionConstants.ACTION_ADD.equals(action)) {
    mask |= ADD;
}
else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
}
else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;
*/

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*/

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            }
        }
        return mask;
    }
}
mask |= DESTROY;
} else if (ActionConstants.ACTION_PUT.equals(action)) {
    mask |= PUT;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
}
}
return mask;
}
}

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The licenses for most software are designed to take away your 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.

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

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

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

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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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 portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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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.)

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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.

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
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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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
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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,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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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
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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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
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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3.3.0.ga

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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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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  its purpose remains meaningful.

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

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

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

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

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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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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
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application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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<li><strong>a)</strong> 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.)</li>
<li><strong>b)</strong> 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.</li>
<li><strong>c)</strong> 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.</li>

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access to copy the above specified materials from the same
place.</li>

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a copy of these materials or that you have already sent this user
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</ul>

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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
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the work based on the Library and of the other library facilities is
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1.496 hmaccalc 0.9.13 :4.el7
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1.511 icu 50.1.2 :15.el7

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```bash
## -*.makefile-*-.
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srdir)/%.cpp
```

Open Source Used In UCCX 12.5
$(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/\([^]*\)\(.*\)/\1.o $@ : /g\" > $@;\n  [ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
  @echo "generating dependency information for $<"
  @$(SHELL) -ec "$(GEN_DEPS.cc) $< \n  | sed \"s/\([^]*\)\(.*\)/\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

1.512 icu4c 49.1.2

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1.513 ICU4J 4.0.1

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(1)

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(3)

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

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

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

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

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBUTIFF:

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<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
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<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by <code>char32At()</code>. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

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

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

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

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
  <li>Set the metadata of the new text to the metadata of the first character replaced</li>
  <li>If no characters are replaced, use the metadata of the previous character</li>
  <li>If there is no previous character (i.e. <code>start == 0</code>), use the following character</li>
  <li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
  <li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

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

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement <a>Replaceable</a> in their text representation class.</p>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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*/

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() {
        return null;
    }
}
public void checkGuard(Object obj) throws SecurityException { }

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

public abstract String getActions();

public abstract boolean implies(Permission permission);

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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* tab size:   8 (not used)
* indentation:4
* 
* created on: 2005jan16
* created by: Markus W. Scherer
* 
* Low-level Unicode bidi/shaping properties access.
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

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

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

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable
@author Alan Liu
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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

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

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.543 jackson-core-asl 1.9.2

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JArgs command-line argument parsing library

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Prerequisites

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Apache Ant (1.4.1), by The Apache Software Foundation, from
http://ant.apache.org/. Ant is used to build JArgs, and to run its tests.
JUnit (3.7), by Eric Gamma, et al, from http://sourceforge.net/projects/junit. JUnit is used to run the unit tests, and is not needed to run the library itself.

Installation
------------

To compile, package, and test the code, run

ant

Two jars are created, one called lib/jargs.jar, which contains the runtime library, and one called lib/jargs-test.jar, which contains the unit tests and the examples. The Javadoc APIs are created in doc/api.

To use the library with your own code, simply ensure that lib/jargs.jar is on the CLASSPATH.

Documentation
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The main documentation is the detailed worked example in src/jargs/examples/gnu/OptionTest.java, plus the generated API documentation in doc/api/.

Package contents
-----------------

src/jargs/gnu -- The library itself.
src/jargs/examples/gnu -- Examples showing how to use the library.
src/jargs/test/gnu -- JUnit tests.
doc/ -- API and other documentation.
classes/ -- Compiled classes, once built.
lib/ -- JArgs jars, once built.

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1.586 Java Persistence API 1.0.2-GA

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1.588 java-1.7.0-openjdk 1.7.0.181 :2.6.14.1.el6_9

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package java.lang;

import java.io.BufferedInputStream;
import java.io.BufferedOutputStream;
import java.io.ByteArrayInputStream;
import java.io.FileDescriptor;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Arrays;
import java.util.Locale;
import java.util.concurrent.Executors;
import java.util.concurrent.Executor;
import java.util.concurrent.ThreadFactory;
import java.security.AccessController;
import static java.security.AccessController.doPrivileged;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;

/**
 * java.lang.Process subclass in the UNIX environment.
 * @author Mario Wolczko and Ross Knippel.
 * @author Konstantin Kladko (ported to Bsd)
 * @author Martin Buchholz
 */
final class UNIXProcess extends Process {
    private static final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private final int pid;

    /**
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     * 2 along with this work; if not, write to the Free Software Foundation,
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     *
     * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
     * or visit www.oracle.com if you need additional information or have any
     * questions.
     */

    public UNIXProcess()
    {
        super();
    }

    /**************/
    /**************/
    /**************/
private int exitcode;
private boolean hasExited;

private /* final */ OutputStream stdin;
private /* final */ InputStream stdout;
private /* final */ InputStream stderr;

private static enum LaunchMechanism {
    FORK(1),
    POSIX_SPAWN(2);

private int value;
    LaunchMechanism(int x) {value = x;}
};

/* On BSD, the default is to spawn */
private static final LaunchMechanism launchMechanism;
private static byte[] helperpath;

private static byte[] toCString(String s) {
    if (s == null)
        return null;
    byte[] bytes = s.getBytes();
    byte[] result = new byte[bytes.length + 1];
    System.arraycopy(bytes, 0,
            result, 0,
            bytes.length);
    result[result.length-1] = (byte)0;
    return result;
}

static {
    launchMechanism = AccessController.doPrivileged(
            new PrivilegedAction<LaunchMechanism>()
    {
        public LaunchMechanism run() {
            String javahome = System.getProperty("java.home");
            helperpath = toCString(javahome + "/lib/jspawnhelper");
            String s = System.getProperty(
            "jdk.lang.Process.launchMechanism", "posix_spawn");
            try {
                return LaunchMechanism.valueOf(s.toUpperCase(Locale.ENGLISH));
            } catch (IllegalArgumentException e) {
                throw new Error(s + " is not a supported " +
                        "process launch mechanism on this platform.");
            }
        }
    }());
}
private native int waitForProcessExit(int pid);

/**
 * Create a process. Depending on the mode flag, this is done by
 * one of the following mechanisms.
 * - fork(2) and exec(2)
 * - posix_spawn(2)
 *
 * @param fds an array of three file descriptors.
 *        Indexes 0, 1, and 2 correspond to standard input.
 *        standard output and standard error, respectively. On
 *        input, a value of -1 means to create a pipe to connect
 *        child and parent processes. On output, a value which
 *        is not -1 is the parent pipe fd corresponding to the
 *        pipe which has been created. An element of this array
 *        is -1 on input if and only if it is &lt;em&gt;not&lt;/em&gt; -1 on
 *        output.
 * @return the pid of the subprocess
 */
private native int forkAndExec(int mode, byte[] helperpath,
       byte[] prog,
       byte[] argBlock, int argc,
       byte[] envBlock, int envc,
       byte[] dir,
       int[] fds,
       boolean redirectErrorStream)
throws IOException;

/**
 * The thread factory used to create "process reaper" daemon threads.
 */
private static class ProcessReaperThreadFactory implements ThreadFactory {
    private final static ThreadGroup group = getRootThreadGroup();

    private static ThreadGroup getRootThreadGroup() {
        return doPrivileged(new PrivilegedAction&lt;ThreadGroup&gt; () {
            public ThreadGroup run() {
                ThreadGroup root = Thread.currentThread().getThreadGroup();
                while (root.getParent() != null)
                    root = root.getParent();
                return root;
            }
        });
    }
}
public Thread newThread(Runnable grimReaper) {
    // Our thread stack requirement is quite modest.
    Thread t = new Thread(group, grimReaper, "process reaper", 32768);
t.setDaemon(true);
    // A small attempt (probably futile) to avoid priority inversion
    t.setPriority(Thread.MAX_PRIORITY);
    return t;
}

/**
 * The thread pool of "process reaper" daemon threads.
 */
private static final Executor processReaperExecutor =
doPrivileged(new PrivilegedAction<Executor>() {
    public Executor run() {
        return Executors.newCachedThreadPool
            (new ProcessReaperThreadFactory());
    }
});

UNIXProcess(final byte[] prog,
            final byte[] argBlock, final int argc,
            final byte[] envBlock, final int envc,
            final byte[] dir,
            final int[] fds,
            final boolean redirectErrorStream)
throws IOException {

    pid = forkAndExec(launchMechanism.value,
            helperpath,
            prog,
            argBlock, argc,
            envBlock, envc,
            dir,
            fds,
            redirectErrorStream);

    try {
        doPrivileged(new PrivilegedExceptionAction<Void>() {
            public Void run() throws IOException {
                initStreams(fds);
                return null;
            }
        });
    } catch (PrivilegedActionException ex) {
        throw (IOException) ex.getException();
    }
}
static FileDescriptor newFileDescriptor(int fd) {
    FileDescriptor fileDescriptor = new FileDescriptor();
    fdAccess.set(fileDescriptor, fd);
    return fileDescriptor;
}

void initStreams(int[] fds) throws IOException {
    stdin = (fds[0] == -1) ?
        ProcessBuilder.NullOutputStream.INSTANCE :
        new ProcessPipeOutputStream(fds[0]);

    stdout = (fds[1] == -1) ?
        ProcessBuilder.NullInputStream.INSTANCE :
        new ProcessPipeInputStream(fds[1]);

    stderr = (fds[2] == -1) ?
        ProcessBuilder.NullInputStream.INSTANCE :
        new ProcessPipeInputStream(fds[2]);

    processReaperExecutor.execute(new Runnable() {
        public void run() {
            int exitcode = waitForProcessExit(pid);
            UNIXProcess.this.processExited(exitcode);
        }
    });
}

void processExited(int exitcode) {
    synchronized (this) {
        this.exitcode = exitcode;
        hasExited = true;
        notifyAll();
    }

    if (stdout instanceof ProcessPipeInputStream)
        ((ProcessPipeInputStream) stdout).processExited();

    if (stderr instanceof ProcessPipeInputStream)
        ((ProcessPipeInputStream) stderr).processExited();

    if (stdin instanceof ProcessPipeOutputStream)
        ((ProcessPipeOutputStream) stdin).processExited();
}

public OutputStream getOutputStream() {
    return stdin;
}
public InputStream getInputStream() {
    return stdout;
}

public InputStream getErrorStream() {
    return stderr;
}

public synchronized int waitFor() throws InterruptedException {
    while (!hasExited) {
        wait();
    }
    return exitcode;
}

public synchronized int exitValue() {
    if (!hasExited) {
        throw new IllegalThreadStateException("process hasn't exited");
    }
    return exitcode;
}

private static native void destroyProcess(int pid);
public void destroy() {
    // There is a risk that pid will be recycled, causing us to
    // kill the wrong process! So we only terminate processes
    // that appear to still be running. Even with this check,
    // there is an unavoidable race condition here, but the window
    // is very small, and OSes try hard to not recycle pids too
    // soon, so this is quite safe.
    synchronized (this) {
        if (!hasExited)
            destroyProcess(pid);
    }
    try { stdin.close(); } catch (IOException ignored) {}
    try { stdout.close(); } catch (IOException ignored) {}
    try { stderr.close(); } catch (IOException ignored) {}
}

private static native void init();

static {
    init();
}

/**
 * A buffered input stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
* the process exits, via the processExited hook.
*
* This is tricky because we do not want the user-level InputStream to be
* closed until the user invokes close(), and we need to continue to be
* able to read any buffered data lingering in the OS pipe buffer.
*/

static class ProcessPipeInputStream extends BufferedInputStream {
  private final Object closeLock = new Object();

  ProcessPipeInputStream(int fd) {
    super(new FileInputStream(new FileDescriptor(fd)));
  }

  private static byte[] drainInputStream(InputStream in)
      throws IOException {
    int n = 0;
    int j;
    byte[] a = null;
    while ((j = in.available()) > 0) {
      a = (a == null) ? new byte[j] : Arrays.copyOf(a, n + j);
      n += in.read(a, n, j);
    }
    return (a == null || n == a.length) ? a : Arrays.copyOf(a, n);
  }

  /** Called by the process reaper thread when the process exits. */
  synchronized void processExited() {
    synchronized (closeLock) {
      try {
        InputStream in = this.in;
        // this stream is closed if and only if: in == null
        if (in != null) {
          byte[] stragglers = drainInputStream(in);
          in.close();
          this.in = (stragglers == null) ?
              ProcessBuilder.NullInputStream.INSTANCE :
              new ByteArrayInputStream(stragglers);
        }
      } catch (IOException ignored) {} 
    }
  }

  @Override
  public void close() throws IOException {
    // BufferedInputStream#close() is not synchronized unlike most other methods.
    // Synchronizing helps avoid race with processExited().
    synchronized (closeLock) {
      super.close();
    }
  }
}
/**
 * A buffered output stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 */
static class ProcessPipeOutputStream extends BufferedOutputStream {
    ProcessPipeOutputStream(int fd) {
        super(new FileOutputStream(newFileDescriptor(fd)));
    }
}
/**
 * Called by the process reaper thread when the process exits. */
synchronized void processExited() {
    OutputStream out = this.out;
    if (out != null) {
        try {
            out.close();
        } catch (IOException ignored) {
            // We know of no reason to get an IOException, but if
            // we do, there's nothing else to do but carry on.
        }
        this.out = ProcessBuilder.NullOutputStream.INSTANCE;
    }
}
#
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# questions.
#

# Version
#
# Uses Fedora Core 6 fonts and file paths.
version=1
#
# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

dsansserif.plain.latin-1=DejaVu LGC Sans
dsansserif.plain.japanese-x0208=Sazanami Gothic
dsansserif.plain.korean=Baekmuk Gulim
dsansserif.plain.chinese-big5=AR PL ShanHeiSun Uni
dsansserif.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dsansserif.bold.latin-1=DejaVu LGC Sans Bold
dsansserif.bold.japanese-x0208=Sazanami Gothic
dsansserif.bold.korean=Baekmuk Gulim
dsansserif.bold.chinese-big5=AR PL ShanHeiSun Uni
Open Source Used In UCCX 12.5
monospaced.bold.korean=Baekmuk Gulim
monospaced.bold.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bold.chinese-gb18030=AR PL ShanHeiSun Uni
monospaced.italic.latin-1=DejaVu LGC Sans Mono Oblique
monospaced.italic.japanese-x0208=Sazanami Gothic
monospaced.italic.korean=Baekmuk Gulim
monospaced.italic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.italic.chinese-gb18030=AR PL ShanHeiSun Uni
monospaced.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
monospaced.bolditalic.japanese-x0208=Sazanami Gothic
monospaced.bolditalic.korean=Baekmuk Gulim
monospaced.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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#
SUNWprivate_1.1 {
  global:
    Java java_nio_MappedByteBuffer_force0;
    Java java_nio_MappedByteBuffer_isLoaded0;
    Java java_nio_MappedByteBuffer_load0;
    Java sun_nio_ch_DatagramChannelImpl_disconnect0;
    Java sun_nio_ch_DatagramChannelImpl_initIDs;
    Java sun_nio_ch_DatagramChannelImpl_receive0;
    Java sun_nio_ch_DatagramChannelImpl_send0;
    Java sun_nio_ch_DatagramDispatcher_read0;
    Java sun_nio_ch_DatagramDispatcher_readv0;
    Java sun_nio_ch_DatagramDispatcher_write0;
    Java sun_nio_ch_DatagramDispatcher_writev0;
    Java sun_nio_ch_FileChannelImpl_close0;
    Java sun_nio_ch_FileChannelImpl_initIDs;
    Java sun_nio_ch_FileChannelImpl_map0;
    Java sun_nio_ch_FileChannelImpl_position0;
    Java sun_nio_ch_FileChannelImpl_transferTo0;
    Java sun_nio_ch_FileChannelImpl_unmap0;
    Java sun_nio_ch_FileDispatcherImpl_close0;
    Java sun_nio_ch_FileDispatcherImpl_closeIntFD;
    Java sun_nio_ch_FileDispatcherImpl_force0;
    Java sun_nio_ch_FileDispatcherImpl_init;
Java_sun_nio_ch_FileDispatcherImpl_lock0;
   Java_sun_nio_ch_FileDispatcherImpl_preClose0;
   Java_sun_nio_ch_FileDispatcherImpl_pread0;
   Java_sun_nio_ch_FileDispatcherImpl_pwrite0;
   Java_sun_nio_ch_FileDispatcherImpl_read0;
   Java_sun_nio_ch_FileDispatcherImpl_readv0;
Java_sun_nio_ch_FileDispatcherImpl_release0;
Java_sun_nio_ch_FileDispatcherImpl_size0;
Java_sun_nio_ch_FileDispatcherImpl_truncate0;
   Java_sun_nio_ch_FileDispatcherImpl_write0;
   Java_sun_nio_ch_FileDispatcherImpl_writev0;
   Java_sun_nio_ch_FileKey_init;
   Java_sun_nio_ch_FileKey_initIDs;
Java_sun_nio_ch_InheritedChannel_close0;
Java_sun_nio_ch_InheritedChannel_dup;
Java_sun_nio_ch_InheritedChannel_dup2;
Java_sun_nio_ch_InheritedChannel_open0;
Java_sun_nio_ch_InheritedChannel_peerAddress0;
Java_sun_nio_ch_InheritedChannel_peerPort0;
Java_sun_nio_ch_InheritedChannel_soType0;
   Java_sun_nio_ch_IOUtil_configureBlocking;
   Java_sun_nio_ch_IOUtil_drain;
   Java_sun_nio_ch_IOUtil_fdVal;
   Java_sun_nio_ch_IOUtil_initIDs;
   Java_sun_nio_ch_IOUtil_makePipe;
   Java_sun_nio_ch_IOUtil_randomBytes;
   Java_sun_nio_ch_IOUtil_setfdVal;
Java_sun_nio_ch_KQueue_kqueue;
Java_sun_nio_ch_KQueue_keventRegister;
Java_sun_nio_ch_KQueue_keventPoll;
Java_sun_nio_ch_KQueue_keventSize;
Java_sun_nio_ch_KQueue_identOffset;
Java_sun_nio_ch_KQueue_filterOffset;
Java_sun_nio_ch_KQueue_flagsOffset;
Java_sun_nio_ch_KQueuePort_socketpair;
Java_sun_nio_ch_KQueuePort_interrupt;
Java_sun_nio_ch_KQueuePort_drain1;
Java_sun_nio_ch_KQueuePort_close0;
Java_sun_nio_ch_NativeThread_current;
Java_sun_nio_ch_NativeThread_init;
Java_sun_nio_ch_NativeThread_signal;
Java_sun_nio_ch_Net_canIPv6SocketJoinIPv4Group0;
Java_sun_nio_ch_Net_canJoin6WithIPv4Group0;
Java_sun_nio_ch_Net_socket0;
Java_sun_nio_ch_Net_bind0;
Java_sun_nio_ch_Net_connect0;
Java_sun_nio_ch_Net_list0;
Java_sun_nio_ch_Net_localPort;
Java_sun_nio_ch_Net_LocalInetAddress;
Java_sun_nio_ch_Net_getIntOption0;
Java_sun_nio_ch_Net_setIntOption0;
    Java_sun_nio_ch_Net_initIDs;
Java_sun_nio_ch_Net_isIPv6Available0;
Java_sun_nio_ch_Net_joinOrDrop4;
Java_sun_nio_ch_Net_blockOrUnblock4;
Java_sun_nio_ch_Net_joinOrDrop6;
Java_sun_nio_ch_Net_blockOrUnblock6;
Java_sun_nio_ch_Net_setInterface4;
Java_sun_nio_ch_Net_getInterface4;
Java_sun_nio_ch_Net_setInterface6;
Java_sun_nio_ch_Net_getInterface6;
Java_sun_nio_ch_Net_shutdown;
    Java_sun_nio_ch_Net_isExclusiveBindAvailable;
    Java_sun_nio_ch_PollArrayWrapper_interrupt;
    Java_sun_nio_ch_PollArrayWrapper_poll0;
    Java_sun_nio_ch_ServerSocketChannelImpl_accept0;
    Java_sun_nio_ch_ServerSocketChannelImpl_initIDs;
    Java_sun_nio_ch_ServerSocketChannelImpl_checkConnect;
Java_sun_nio_ch_SocketChannelImpl_sendOutOfBandData;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_accept0;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_initIDs;
Java_sun_nio_ch_UnixAsynchronousSocketChannelImpl_initIDs;
Java_sun_nio_fs_BsdNativeDispatcher_initIDs;
Java_sun_nio_fs_BsdNativeDispatcher_getfsstat;
Java_sun_nio_fs_BsdNativeDispatcher_fsstatEntry;
Java_sun_nio_fs_BsdNativeDispatcher_endsfsstat;
Java_sun_nio_fs_UnixNativeDispatcher_init;
Java_sun_nio_fs_UnixNativeDispatcher_getcwd;
Java_sun_nio_fs_UnixNativeDispatcher_strerror;
Java_sun_nio_fs_UnixNativeDispatcher_dup;
Java_sun_nio_fs_UnixNativeDispatcher_access0;
Java_sun_nio_fs_UnixNativeDispatcher_stat0;
Java_sun_nio_fs_UnixNativeDispatcher_lstat0;
Java_sun_nio_fs_UnixNativeDispatcher_fstat;
Java_sun_nio_fs_UnixNativeDispatcher_fstatat0;
Java_sun_nio_fs_UnixNativeDispatcher_chmod0;
Java_sun_nio_fs_UnixNativeDispatcher_fchmod;
Java_sun_nio_fs_UnixNativeDispatcher_chown0;
Java_sun_nio_fs_UnixNativeDispatcher_lchown0;
Java_sun_nio_fs_UnixNativeDispatcher_fchown;
Java_sun_nio_fs_UnixNativeDispatcher_utimes0;
Java_sun_nio_fs_UnixNativeDispatcher_ftimes;
Java_sun_nio_fs_UnixNativeDispatcher_open0;
Java_sun_nio_fs_UnixNativeDispatcher_openat0;
Java_sun_nio_fs_UnixNativeDispatcher_close;
Java_sun_nio_fs_UnixNativeDispatcher_read;
Java_sun_nio_fs_UnixNativeDispatcher_write;
Java_sun_nio_fs_UnixNativeDispatcher_fopen0;
Java_sun_nio_fs_UnixNativeDispatcher_fclose;
Java_sun_nio_fs_UnixNativeDispatcher_opendir0;
Java_sun_nio_fs_UnixNativeDispatcher_fdopendir;
Java_sun_nio_fs_UnixNativeDispatcher_readdir;
Java_sun_nio_fs_UnixNativeDispatcher_closedir;
Java_sun_nio_fs_UnixNativeDispatcher_link0;
Java_sun_nio_fs_UnixNativeDispatcher_unlink0;
Java_sun_nio_fs_UnixNativeDispatcher_unlinka0;
Java_sun_nio_fs_UnixNativeDispatcher_rename0;
Java_sun_nio_fs_UnixNativeDispatcher_renameat0;
Java_sun_nio_fs_UnixNativeDispatcher_mkdir0;
Java_sun_nio_fs_UnixNativeDispatcher_rmdir0;
Java_sun_nio_fs_UnixNativeDispatcher_symlink0;
Java_sun_nio_fs_UnixNativeDispatcher_readlink0;
Java_sun_nio_fs_UnixNativeDispatcher realpath0;
Java_sun_nio_fs_UnixNativeDispatcher_statvfs0;
Java_sun_nio_fs_UnixNativeDispatcher_pathconf0;
Java_sun_nio_fs_UnixNativeDispatcher_fpathconf;
Java_sun_nio_fs_UnixNativeDispatcher_mknod0;
Java_sun_nio_fs_UnixNativeDispatcher_getpwuid;
Java_sun_nio_fs_UnixNativeDispatcher_getgrgid;
Java_sun_nio_fs_UnixNativeDispatcher_getpwnam0;
Java_sun_nio_fs_UnixNativeDispatcher_getgrnam0;
Java_sun_nio_fs_UnixCopyFile_transfer;
handleSocketError;

local:
  *
};
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# Define public interface.

```
SUNWprivate_1.1 {
  global:
    Java_sun_tools_attach_BsdVirtualMachine_checkPermissions;
    Java_sun_tools_attach_BsdVirtualMachine_close;
    Java_sun_tools_attach_BsdVirtualMachine_connect;
    Java_sun_tools_attach_BsdVirtualMachine_open;
    Java_sun_tools_attach_BsdVirtualMachine_sendQuitTo;
    Java_sun_tools_attach_BsdVirtualMachine_socket;
    Java_sun_tools_attach_BsdVirtualMachine_read;
    Java_sun_tools_attach_BsdVirtualMachine_write;
    Java_sun_tools_attach_BsdVirtualMachine_createAttachFile;
  local:
    *;
};
```

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platform=bsd
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# questions.
#
# Define public interface for libawt.so on Bsd.
# Bsd port does not use mawt, all public symbols are in libawt.so

SUNWprivate_1.1 {
  global:
  JNI_OnLoad:

  Java_java_awt_CheckboxMenuItem_initIDs;
  Java_java_awt_Color_initIDs;
  Java_java_awt_FontMetrics_initIDs;
  Java_java_awt_image_BufferedImage_initIDs;
  Java_sun_awt_image_DataBufferNative_getElem;
  Java_sun_awt_image_DataBufferNative_setElem;
  Java_java_awt_image_ColorModel_initIDs;
  Java_java_awt_image_ComponentSampleModel_initIDs;
Java_java_awt_image_IndexColorModel_initIDs;
Java_java_awt_image_Kernel_initIDs;
Java_java_awt_image_Raster_initIDs;
Java_java_awt_image_SampleModel_initIDs;
Java_java_awt_Label_initIDs;
Java_java_awt_MenuBar_initIDs;
Java_java_awt_ScrollPaneAdjustable_initIDs;
Java_java_awt_Toolkit_initIDs;
Java_java_awt_TrayIcon_initIDs;
Java_sun_awt_DebugSettings_setCTracingOn__Z;
Java_sun_awt_DebugSettings_setCTracingOn__ZLjava_lang_String_2;
Java_sun_awt_DebugSettings_setCTracingOn__ZLjava_lang_String_2I;
Java_sun_awt_image_ByteComponentRaster_initIDs;
Java_sun_awt_image_GifImageDecoder_initIDs;
Java_sun_awt_image_GifImageDecoder_parseImage;
Java_sun_awt_image_Image_initIDs;
Java_sun_awt_image_ImageRepresentation_initIDs;
Java_sun_awt_image_ImageRepresentation_setDiffICM;
Java_sun_awt_image_ImageRepresentation_setICMpixels;
Java_sun_awt_image_ImagingLib_convolveBI;
Java_sun_awt_image_ImagingLib_convolveRaster;
Java_sun_awt_image_ImagingLib_init;
Java_sun_awt_image_ImagingLib_transformBI;
Java_sun_awt_image_ImagingLib_transformRaster;
Java_sun_awt_image_IntegerComponentRaster_initIDs;
Java_sun_awt_image_ShortComponentRaster_initIDs;
Java_sun_java2d_pipe_SpanClipRenderer_eraseTile;
Java_sun_java2d_pipe_SpanClipRenderer_fillTile;
Java_sun_java2d_pipe_ShapeSpanIterator_addSegment;
Java_sun_java2d_pipe_ShapeSpanIterator_moveTo;
Java_sun_java2d_pipe_ShapeSpanIterator_lineTo;
Java_sun_java2d_pipe_ShapeSpanIterator_quadTo;
Java_sun_java2d_pipe_ShapeSpanIterator_curveTo;
Java_sun_java2d_pipe_ShapeSpanIterator_closePath;
Java_sun_java2d_pipe_ShapeSpanIterator_pathDone;
Java_sun_java2d_pipe_ShapeSpanIterator_getNativeConsumer;
Java_sun_java2d_pipe_ShapeSpanIterator_appendPoly;
Java_sun_java2d_pipe_ShapeSpanIterator_dispose;
Java_sun_java2d_pipe_ShapeSpanIterator_getNativeIterator;
Java_sun_java2d_pipe_ShapeSpanIterator_getPathBox;
Java_sun_java2d_pipe_ShapeSpanIterator_initIDs;
Java_sun_java2d_pipe_ShapeSpanIterator_intersectClipBox;
Java_sun_java2d_pipe_ShapeSpanIterator_nextSpan;
Java_sun_java2d_pipe_ShapeSpanIterator_setNormalize;
Java_sun_java2d_pipe_ShapeSpanIterator_setOutputAreaXYXY;
Java_sun_java2d_pipe_ShapeSpanIterator_setRule;
Java_sun_java2d_pipe_ShapeSpanIterator_skipDownTo;
Java_java_awt_Dimension_initIDs;
Java_java_awt_event_MouseEvent_initIDs;
Java_java_awt_image_DataBufferInt_initIDs;
Java_java_awt_image_SinglePixelPackedSampleModel_initIDs;
Java_java_awt_Rectangle_initIDs;
Java_sun_awt_image_BufImgSurfaceData_getSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_initIDs;
Java_sun_awt_image_BufImgSurfaceData_initRaster;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_ImagePackedRaster_initIDs;
Java_sun_awt_image_ImagingLib_lookupByteBI;
Java_sun_awt_image_ImagingLib_lookupByteRaster;
Java_sun_java2d_SurfaceData_initIDs;
Java_sun_java2d_SurfaceData_isOpaqueGray;
Java_sun_java2d_Disposer_initIDs;
Java_sun_java2d_DefaultDisposerRecord_invokeNativeDispose;
Java_sun_java2d_loops_BlitBg_BlitBg;
Java_sun_java2d_loops_Blit_Blit;
Java_sun_java2d_loops_ScaledBlit_Scale;
Java_sun_java2d_loops_DrawLine_DrawLine;
Java_sun_java2d_loops_DrawPolygons_DrawPolygons;
Java_sun_java2d_loops_DrawRect_DrawRect;
Java_sun_java2d_loops_FillRect_FillRect;
Java_sun_java2d_loops_FillSpans_FillSpans;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_initIDs;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_registerNativeLoops;
Java_sun_java2d_loops_MaskBlit_MaskBlit;
Java_sun_java2d_loops_MaskFill_MaskFill;
Java_sun_java2d_loops_MaskFill_FillAAPgram;
Java_sun_java2d_loops_MaskFill_DrawAAPgram;
Java_sun_java2d_pipe_BufferedRenderPipe_fillSpans;
Java_sun_java2d_pipe_SpanClipRenderer_initIDs;
sun_awt_image_GifImageDecoder_initIDs;

# libmawt entry points
SurfaceData_InitOps;
SurfaceData_ThrowInvalidPipeException;
  Region_GetBounds;
  Region_GetInfo;
  Region_StartIteration;
  Region_CountIterationRects;
  Region_NextIteration;
  Region_EndIteration;
  GrPrim_CompGetXorInfo;
  GrPrim_CompGetAlphaInfo;
img_makePalette;
initInverseGrayLut;
make_dither_arrays;
make_uns_ordered_dither_array;

# variables exported to libmawt
std_img_oda_red;
std_img_oda_blue;
std_img_oda_green;
std_odas_computed;
g_CMpDataID;
colorValueID;
jvm;

# CDE private entry point
# This is in awt_LoadLibrary.c and falls through to libmawt.
# Evidently CDE needs this for backward compatibility.
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
# This is in awt_LoadLibrary.c and falls through to libmawt.
# Evidently plugin needs this for backward compatibility.
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
GrPrim_Sg2dGetCompInfo;
GrPrim_Sg2dGetClip;
GetNativePrim;
SurfaceData_IntersectBounds;
SurfaceData_GetOps;
Disposer_AddRecord;
GrPrim_Sg2dGetEaRGB;
GrPrim_Sg2dGetPixel;
GrPrim_Sg2dGetLCDTextContrast;

#Java_sun_awt_motif_MComponentPeer_restoreFocus;
Java_sun_awt_DefaultMouseInfoPeer_fillPointWithCoords;
Java_sun_awt_DefaultMouseInfoPeer_isWindowUnderMouse;
Java_java_awt_AWTEvent_nativeSetSource;
Java_java_awt_Checkbox_initIDs;
Java_java_awt_Component_initIDs;
Java_java_awt_Dialog_initIDs;
Java_java_awt_Font_initIDs;
Java_sun_awt_KeyboardFocusManagerPeerImpl_clearNativeGlobalFocusOwner;
Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusOwner;
Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusedWindow;
Java_java_awt_KeyboardFocusManager_initIDs;
Java_java_awt_Menu_initIDs;
Java_java_awt_MenuComponent_initIDs;
Java_java_awt_MenuItem_initIDs;
Java_java_awt_Scrollbar_initIDs;
Java_java_awt_ScrollPane_initIDs;
Java_java_awt_TextArea_initIDs;
Java_sun_awt_FontDescriptor_initIDs;
#Java_sun_awt_motif_MButtonPeer_create;
#Java_sun_awt_motif_MButtonPeer_setLabel;
#Java_sun_awt_motif_MCanvasPeer_create;
#Java_sun_awt_motif_MCanvasPeer_initIDs;
#Java_sun_awt_motif_MCanvasPeer_resetTargetGC;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_create;
#Java_sun_awt_motif_MCheckboxPeer_setCheckboxGroup;
#Java_sun_awt_motif_MCheckboxPeer_setLabel;
#Java_sun_awt_motif_MCheckboxPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_pGetState;
#Java_sun_awt_motif_MChoicePeer_addItem;
#Java_sun_awt_motif_MChoicePeer_appendItems;
#Java_sun_awt_motif_MChoicePeer_create;
#Java_sun_awt_motif_MChoicePeer_pReshape;
#Java_sun_awt_motif_MChoicePeer_remove;
#Java_sun_awt_motif_MChoicePeer_removeAll;
#Java_sun_awt_motif_MChoicePeer_setBackground;
#Java_sun_awt_motif_MChoicePeer_pSelect;
#Java_sun_awt_motif_MChoicePeer_setFont;
#Java_sun_awt_motif_MChoicePeer_setForeground;
#Java_sun_awt_motif_MComponentPeer_addNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_createBackBuffer;
#Java_sun_awt_motif_MComponentPeer_destroyBackBuffer;
#Java_sun_awt_motif_MComponentPeer_getNativeColor;
#Java_sun_awt_motif_MComponentPeer_getWindow;
#Java_sun_awt_motif_MComponentPeer_pDisable;
#Java_sun_awt_motif_MComponentPeer_pDispose;
#Java_sun_awt_motif_MComponentPeer_pEnable;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen2;
#Java_sun_awt_motif_MComponentPeer_pHide;
#Java_sun_awt_motif_MComponentPeer_pInitialize;
#Java_sun_awt_motif_MComponentPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MComponentPeer_pReshape;
#Java_sun_awt_motif_MComponentPeer_pShow;
#Java_sun_awt_motif_MComponentPeer_removeNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_swapBuffers;
#Java_sun_awt_motif_MComponentPeer_pSetBackground;
#Java_sun_awt_motif_MComponentPeer_pSetFont;
#Java_sun_awt_motif_MComponentPeer_processSynchronousLightweightTransfer;
#Java_sun_awt_motif_MComponentPeer_pSetForeground;
#Java_sun_awt_motif_MComponentPeer_pSetNativeCursor;
#Java_sun_awt_motif_MComponentPeer_pSetFrame;
#Java_sun_awt_motif_MComponentPeer_pSetIconImage;
#Java_sun_awt_motif_MComponentPeer_pSetNativeCursor;
#Java_sun_awt_motif_MDragSourceContextPeer_setDragStart;
#Java_sun_awt_motif_MDragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_MDragSourceContextPeer_setTransfer;
#Java_sun_awt_motif_MDropTargetContextPeer_addTransfer;
#Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
#Java_sun_awt_motif_MDropTargetContextPeer_startTransfer;
#Java_sun_awt_motif_MDropTargetContextPeer_startDrag;
#Java_sun_awt_motif_MDropTargetContextPeer_setNativeCursor;
#Java_sun_awt_motif_MDragSourceContextPeer_startDrag;
#Java_sun_awt_motif_MDropTargetContextPeer_sendResponse;
#Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
#Java_sun_awt_motif_MDropTargetContextPeer_getData;
#Java_sun_awt_motif_MEmbeddedFramePeer_NEFcreate;
#Java_sun_awt_motif_MEmbeddedFramePeer_pShowImpl;
#Java_sun_awt_motif_MEmbeddedFramePeer_pReshapePrivate;
#Java_sun_awt_motif_MEmbeddedFramePeer_getBoundsPrivate;
#Java_sun_awt_motif_MFramePeer_pGetIconImage;
#Java_sun_awt_motif_MEmbeddedFramePeer_requestXEmbedFocus;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedApplicationActive;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedActive;
#Java_sun_awt_motif_MEmbeddedFrame_getWidget;
#Java_sun_awt_motif_MEmbeddedFrame_mapWidget;
#Java_sun_awt_motif_MFileDialogPeer_create;
#Java_sun_awt_motif_MFileDialogPeer_pDispose;
#Java_sun_awt_motif_MFileDialogPeer_pHide;
#Java_sun_awt_motif_MFileDialogPeer_pReshape;
#Java_sun_awt_motif_MFileDialogPeer_pShow;
#Java_sun_awt_motif_MFileDialogPeer_setFileEntry;
#Java_sun_awt_motif_MFileDialogPeer_setFont;
#Java_sun_awt_motif_MFramePeer_pGetIconSize;
#Java_sun_awt_motif_MGlobalCursorManager_cacheInit;
#Java_sun_awt_motif_MGlobalCursorManager_findComponentAt;
#Java_sun_awt_motif_MGlobalCursorManager_findHeavyweightUnderCursor;
#Java_sun_awt_motif_MGlobalCursorManager_getCursorPos;
#Java_sun_awt_motif_MGlobalCursorManager_getLocationOnScreen;
#Java_sun_awt_motif_MLabelPeer_getText;
#Java_sun_awt_motif_MLabelPeer_setAlignment;
#Java_sun_awt_motif_MLabelPeer_setFont;
#Java_sun_awt_motif_MLabelPeer_setText;
#Java_sun_awt_motif_MListPeer_addItem;
#Java_sun_awt_motif_MListPeer_create;
#Java_sun_awt_motif_MListPeer_deselect;
#Java_sun_awt_motif_MListPeer_makeVisible;
#Java_sun_awt_motif_MListPeeriselect;
#Java_sun_awt_motif_MListPeer_setMultipleSelections;
#Java_sun_awt_motif_MMenuPeer_setMultipleSelections;
#Java_sun_awt_motif_MMenuItemPeer_createMenuItem;
#Java_sun_awt_motif_MMenuItemPeer_pDisable;
#Java_sun_awt_motif_MMenuItemPeer_pDispose;
#Java_sun_awt_motif_MMenuItemPeer_pEnable;
#Java_sun_awt_motif_MMenuItemPeer_psetLabel;
#Java_sun_awt_motif_MMenuPeer_createMenu;
#Java_sun_awt_motif_MMenuPeer_createSubMenu;
#Java_sun_awt_motif_MMenuPeer_pDispose;
#Java_sun_awt_motif_MPopupMenuPeer_createMenu;
#Java_sun_awt_motif_MPopupMenuPeer_pDispose;
#Java_sun_awt_motif_MPopupMenuPeer_pShow;
#Java_sun_awt_motif_MRobotPeer_getRGBPixelsImpl;
#Java_sun_awt_motif_MRobotPeer_keyPressImpl;
#Java_sun_awt_motif_MRobotPeer_keyReleaseImpl;
#Java_sun_awt_motif_MRobotPeer_mouseMoveImpl;
#Java_sun_awt_motif_MRobotPeer_mousePressImpl;
#Java_sun_awt_motif_MRobotPeer_mouseReleaseImpl;
#Java_sun_awt_motif_MRobotPeer_mouseWheelImpl;
#Java_sun_awt_motif_MRobotPeer_setup;
#Java_sun_awt_motif_MScrollbarPeer_create;
#Java_sun_awt_motif_MScrollbarPeer_setLineIncrement;
#Java_sun_awt_motif_MScrollbarPeer_setPageIncrement;
#Java_sun_awt_motif_MScrollbarPeer_pSetValues;
#Java_sun_awt_motif_MScrollPanePeer_create;
#Java_sun_awt_motif_MScrollPanePeer_pGetBlockIncrement;
#Java_sun_awt_motif_MScrollPanePeer_pGetScrollbarSpace;
#Java_sun_awt_motif_MScrollPanePeer_pGetShadow;
#Java_sun_awt_motif_MScrollPanePeer_pInsets;
#Java_sun_awt_motif_MScrollPanePeer_pSetIncrement;
#Java_sun_awt_motif_MScrollPanePeer_pSetScrollChild;
#Java_sun_awt_motif_MScrollPanePeer_setScrollPosition;
#Java_sun_awt_motif_MTextAreaPeer_initIDs;
#Java_sun_awt_motif_MTextAreaPeer_pCreate;
#Java_sun_awt_motif_MTextAreaPeer_getCaretPosition;
#Java_sun_awt_motif_MTextAreaPeer_getExtraHeight;
#Java_sun_awt_motif_MTextAreaPeer_getExtraWidth;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionStart;
#Java_sun_awt_motif_MTextAreaPeer_getText;
#Java_sun_awt_motif_MTextAreaPeer_insert;
#Java_sun_awt_motif_MTextAreaPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MTextAreaPeer_pSetEditable;
#Java_sun_awt_motif_MTextAreaPeer_pShow2;
#Java_sun_awt_motif_MTextAreaPeer_replaceRange;
#Java_sun_awt_motif_MTextAreaPeer_select;
#Java_sun_awt_motif_MTextAreaPeer_setCaretPosition;
#Java_sun_awt_motif_MTextAreaPeer_setFont;
#Java_sun_awt_motif_MTextAreaPeer_setText;
#Java_sun_awt_motif_MWindowPeer_unregisterX11DropTarget;
#Java_sun_awt_motif_MWindowPeer_updateAlwaysOnTop;
#Java_sun_awt_motif_X11CustomCursor_cacheInit;
#Java_sun_awt_motif_X11CustomCursor_createCursor;
Java_sun_awt_motif_X11CustomCursor_queryBestCursor;
Java_sun_awt_motif_X11FontMetrics_bytesWidth;
Java_sun_awt_motif_X11FontMetrics_getMFCharsWidth;
Java_sun_awt_motif_X11FontMetrics_init;
Java_sun_awt_X11InputMethod_disposeXIC;
Java_sun_awt_X11InputMethod_isCompositionEnabledNative;
Java_sun_awt_X11InputMethod_resetXIC;
Java_sun_awt_X11InputMethod_setCompositionEnabledNative;
Java_sun_awt_X11InputMethod_turnoffStatusWindow;
#Java_sun_awt_motif_MInputMethod_openXIMNative;
#Java_sun_awt_motif_MInputMethod_configureStatusAreaNative;
#Java_sun_awt_motif_MInputMethod_createXICNative;
#Java_sun_awt_motif_MInputMethod_reconfigureXICNative;
#Java_sun_awt_motif_MInputMethod_setXICFocusNative;
#Java_sun_awt_motif_X11Clipboard_getClipboardData;
#Java_sun_awt_motif_X11Clipboard_getClipboardFormats;
#Java_sun_awt_motif_X11Clipboard_registerClipboardViewer;
#Java_sun_awt_motif_X11Clipboard_unregisterClipboardViewer;
#Java_sun_awt_motif_X11Selection_init;
#Java_sun_awt_motif_X11Selection_pGetSelectionOwnership;
#Java_sun_awt_motif_X11Selection_clearNativeContext;
Java_sun_awt_SunToolkit_closeSplashScreen;
Java_sun_awt_PlatformFont_initIDs;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_dispose;
Java_sun_awt_X11GraphicsConfig_pGetBounds;
Java_sun_awt_X11GraphicsConfig_getNumColors;
Java_sun_awt_X11GraphicsConfig_getXResolution;
Java_sun_awt_X11GraphicsConfig_getYResolution;
Java_sun_awt_X11GraphicsConfig_isTranslucencyCapable;
Java_sun_awt_X11GraphicsDevice_isDBESupported;
Java_sun_awt_X11GraphicsDevice_getDisplay;
Java_sun_awt_X11GraphicsDevice_getDoubleBufferVisuals;
Java_sun_awt_X11GraphicsDevice_getNumConfigs;
Java_sun_awt_X11GraphicsDevice_initIDs;
Java_sun_awt_X11GraphicsDevice_initXrandrExtension;
Java_sun_awt_X11GraphicsDevice_enterFullScreenExclusive;
Java_sun_awt_X11GraphicsDevice_exitFullScreenExclusive;
Java_sun_awt_X11GraphicsDevice_getCurrentDisplayMode;
Java_sun_awt_X11GraphicsDevice_enumDisplayModes;
Java_sun_awt_X11GraphicsDevice_configDisplayMode;
Java_sun_awt_X11GraphicsDevice_resetNativeData;
Java_sun_awt_X11GraphicsEnvironment_checkShmExt;
Java_sun_awt_X11GraphicsEnvironment_getDefaultScreenNum;
Java_sun_awt_X11GraphicsEnvironment_getDisplayString;
Java_sun_awt_X11GraphicsEnvironment_getNumScreens;
Java_sun_awt_X11GraphicsEnvironment_initDisplay;
Java_sun_awt_X11GraphicsEnvironment_pRunningXinerama;
Java_sun_awt_X11GraphicsEnvironment_getXineramaCenterPoint;
Java_sun_awt_X11GraphicsEnvironment_initXRender;

Java_java_awt_AWTEvent_initIDs;
Java_java_awt_Button_initIDs;
Java_java_awt_Counter_initIDs;
Java_java_awt_Cursor_finalizeImpl;
Java_java_awt_Cursor_initIDs;
Java_java_awt_Event_initIDs;
Java_java_awt_event_InputEvent_initIDs;
Java_java_awt_event_KeyEvent_initIDs;
Java_java_awt_FileDialog_initIDs;
Java_java_awt_Frame_initIDs;
Java_java_awtInsets_initIDs;
Java_java_awt_TextField_initIDs;
Java_java_awt_Window_initIDs;
#Java_sun_awt_motif_MCheckboxPeer_getIndicatorSize;
#Java_sun_awt_motif_MCheckboxPeer_getSpacing;
#Java_sun_awt_motif_MChoicePeer_freeNativeData;
#Java_sun_awt_motif_MComponentPeer_getComponents_1NoClientCode;
#Java_sun_awt_motif_MComponentPeer_getParent_1NoClientCode;
#Java_sun_awt_motif_MComponentPeer_initIDs;
#Java_sun_awt_motif_MComponentPeer_nativeHandleEvent;
#Java_sun_awt_motif_MComponentPeer_pSetCursor;
#Java_sun_awt_motif_MComponentPeer_pSetInnerForeground;
#Java_sun_awt_motif_MComponentPeer_pSetScrollbarBackground;
#Java_sun_awt_motif_MComponentPeer_setTargetBackground;
#Java_sun_awt_motif_MDataTransferer_dragQueryFile;
#Java_sun_awt_motif_MDataTransferer_getAtomForTarget;
#Java_sun_awt_motif_MDataTransferer_getTargetNameForAtom;
#Java_sun_awt_motif_MFileDialogPeer_insertReplaceFileDialogText;
Java_sun_awt_motif_MFontPeer_initIDs;
#Java_sun_awt_motif_MListPeer_setBackground;
#Java_sun_awt_motif_MMenuBarPeer_initIDs;
#Java_sun_awt_motif_MMenuBarPeer_pDispose;
#Java_sun_awt_motif_MMenuItemPeer_getParent_1NoClientCode;
#Java_sun_awt_motif_MMenuItemPeer_initIDs;
#Java_sun_awt_motif_MPopupMenuPeer_initIDs;
#Java_sun_awt_motif_MScrollPanePeer_initIDs;
#Java_sun_awt_motif_MTextAreaPeer_pSetCursor;
Java_sun_awt_motif_MToolkit_shutdown;
#Java_sun_awt_motif_MWindowPeer_initIDs;
#Java_sun_awt_motif_MWindowPeer_pCreate;
#Java_sun_awt_motif_MWindowPeer_wrapInSequenced;
Java_sun_awt_motif_X11FontMetrics_initIDs;
#Java_sun_awt_X11InputMethod_initIDs;
Java_sun_awt_motif_X11OffScreenImage_updateBitmask;
#Java_sun_awt_motif_X11Selection_initIDs;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_enter;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_exit;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_initIDs;
Java_sun_awt_X11GraphicsConfig_makeColorModel;
Java_sun_awt_X11GraphicsDevice_getConfigVisualId;
Java_sun_awt_X11PMBlitLoops_Blit;
Java_sun_awt_X11PMBlitBgLoops_nativeBlitBg;
Java_sun_awt_X11Renderer_devFillSpans;
Java_sun_awt_X11Renderer_doDrawArc;
Java_sun_awt_X11Renderer_doDrawLine;
Java_sun_awt_X11Renderer_doDrawOval;
Java_sun_awt_X11Renderer_doDrawPoly;
Java_sun_awt_X11Renderer_doDrawRect;
Java_sun_awt_X11Renderer_doDrawRoundRect;
Java_sun_awt_X11Renderer_doFillArc;
Java_sun_awt_X11Renderer_doFillOval;
Java_sun_awt_X11Renderer_doFillPoly;
Java_sun_awt_X11Renderer_doFillRect;
Java_sun_awt_X11Renderer_doFillRoundRect;
Java_sun_awt_X11Renderer_devCopyArea;
Java_sun_awt_X11SurfaceData_initIDs;
Java_sun_awt_X11SurfaceData_initOps;
Java_sun_awt_X11SurfaceData_initSurface;
Java_sun_awt_X11SurfaceData_isDgaAvailable;
Java_sun_awt_X11SurfaceData_setInvalid;
Java_sun_awt_X11SurfaceData_flushNativeSurface;
#Java_sun_awt_motif_MEmbedCanvasPeer_initXEmbedServer;
#Java_sun_awt_motif_MEmbedCanvasPeer_destroyXEmbedServer;
#Java_sun_awt_motif_MEmbedCanvasPeer_isXEmbedActive;
#Java_sun_awt_motif_MEmbedCanvasPeer_initDispatching;
#Java_sun_awt_motif_MEmbedCanvasPeer_endDispatching;
#Java_sun_awt_motif_MEmbedCanvasPeer_embedChild;
#Java_sun_awt_motif_MEmbedCanvasPeer_childDestroyed;
#Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedPreferredSize;
#Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedMinimumSize;
#Java_sun_awt_motif_MEmbedCanvasPeer_getClientBounds;
#Java_sun_awt_motif_MEmbedCanvasPeer_notifyChildEmbedded;
#Java_sun_awt_motif_MEmbedCanvasPeer_detachChild;
#Java_sun_awt_motif_MEmbedCanvasPeer_forwardKeyEvent;
#Java_sun_awt_motif_MEmbedCanvasPeer_getAWTKeyCodeForKeySym;
#Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__I;
#Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__IJJJ;
#Java_sun_awt_motif_MEmbedCanvasPeer_getWindow;
#Java_sun_awt_motif_MEmbedCanvasPeer_forwardEventToEmbedded;
#Java_sun_awt_motif_GrabbedKey_initKeySymAndModifiers;
#Java_sun_awt_motif_MEmbeddedFramePeer_traverseOut;

awt_display;
awt_lock;
awt_Lock;
awt_Unlock;
    awt_GetDrawingSurface;
    awt_FreeDrawingSurface;
    awt_GetComponent;

X11SurfaceData_GetOps;
getDefaultConfig;
    Java_sun_font_FontConfigManager_getFontConfig;
    Java_sun_font_FontConfigManager_getFontConfigAASettings;
Java_sun_awt_X11FontManager_getFontPathNative;
Java_sun_font_SunFontManager_populateFontFileNameMap;

# CDE private entry point
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
AWTCountFonts;
    AWTLoadFont;
    AWTFreeFont;
    AWTFontMinByte1;
    AWTFontMaxByte1;
    AWTFontMinCharOrByte2;
    AWTFontMaxCharOrByte2;
    AWTFontDefaultChar;
    AWTFontPerChar;
    AWTFontMaxBounds;
    AWTFontTextExtents16;
    AWTFreeChar;
    AWTFontGenerateImage;
    AWTCharAdvance;
    AWTCharLBearing;
    AWTCharRBearing;
AWTCharAscent;
AWTCharDescent;
AWTDrawGlyphList;
AccelGlyphCache_RemoveAllCellInfos;

import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}  

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
    
}  

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  */

/**
  *
  */
import java.rmi.Remote;
public interface Legal extends Remote { }
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Version 2, June 1991

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#
#
# Definitions for Bsd.
#

# Default for COMPILER_WARNINGS_FATAL on Bsd (C & C++ compiler warnings)
ifndef COMPILER_WARNINGS_FATAL
  COMPILER_WARNINGS_FATAL=false
endif

# Bsd should use parallel compilation for best build times
ifndef COMPILE_APPROACH
  COMPILE_APPROACH = parallel
endif

# Indication that we are doing an incremental build.
# This may trigger the creation of make depend files.
ifndef INCREMENTAL_BUILD
  INCREMENTAL_BUILD = false
endif

# FullPath just makes sure it never ends with a / and no duplicates
define FullPath
$(shell cd $1 2> $(DEV_NULL) && pwd)
endef
# OptFullPath: Absolute path name of a dir that might not initially exist.
define OptFullPath
$(shell if [ "$1" != "" -a -d "$1" ]; then (cd $1 && pwd); else echo "$1"; fi)
endef

# Location on system where jdk installs might be
USRJDKINSTANCES_PATH =$(PACKAGE_PATH)

# UNIXCOMMAND_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_UNIXCOMMAND_PATH)" "undefined"
    UNIXCOMMAND_PATH :=$(call PrefixPath,$(ALT_UNIXCOMMAND_PATH))
else
    UNIXCOMMAND_PATH = /bin/
endif

# USRBIN_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_USRBIN_PATH)" "undefined"
    USRBIN_PATH :=$(call PrefixPath,$(ALT_USRBIN_PATH))
else
    USRBIN_PATH = /usr/bin/
endif

# UNIXCCS_PATH: path to where the Solaris ported UNIX commands can be found
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_UNIXCCS_PATH)" "undefined"
    UNIXCCS_PATH :=$(call PrefixPath,$(ALT_UNIXCCS_PATH))
else
    UNIXCCS_PATH = /usr/ccs/bin/
endif

# SLASH_JAVA: location of all network accessible files
ifdef ALT_SLASH_JAVA
    SLASH_JAVA :=$(ALT_SLASH_JAVA)
else
    SLASH_JAVA := $(call DirExists,/java,/java,/NOT-SET)
endif

# JDK_DEVTOOLS_DIR: common path for all the java devtools
ifdef ALT_JDK_DEVTOOLS_DIR
    JDK_DEVTOOLS_DIR =$(ALT_JDK_DEVTOOLS_DIR)
else
    JDK_DEVTOOLS_DIR =$(SLASH_JAVA)/devtools
endif

# DEVTOOLS_PATH: for other tools required for building (such as zip, etc.)
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifndef "$(origin ALT_DEVTOOLS_PATH)" "undefined"
DEVTOOLS_PATH :=$(call PrefixPath,$(ALT_DEVTOOLS_PATH))
else
DEVTOOLS_PATH =$(PACKAGE_PATH)/bin/
endif

# _BOOTDIR1: First choice for a Bootstrap JDK, previous released JDK.
# _BOOTDIR2: Second choice
ifndef ALT_BOOTDIR
_BOOTDIR1  =$(SLASH_JAVA)/re/jdk/$(PREVIOUS_JDK_VERSION)/archive/fcs/binaries/$(_BOOTDIR2)
_BOOTDIR2  =$(USRJDKINSTANCES_PATH)/jdk$(PREVIOUS_JDK_VERSION)
endif

# Import JDK images allow for partial builds, components not built are
# imported (or copied from) these import areas when needed.

ifndef ALT_BUILD_JDK_IMPORT_PATH
BUILD_JDK_IMPORT_PATH  :=$(call FullPath,$(ALT_BUILD_JDK_IMPORT_PATH))
else
BUILD_JDK_IMPORT_PATH   = $(PROMOTED_BUILD_BINARIES)
endif
BUILD_JDK_IMPORT_PATH:=$(call AltCheckValue,BUILD_JDK_IMPORT_PATH)

ifndef ALT_JDK_IMPORT_PATH
JDK_IMPORT_PATH   = $(BUILD_JDK_IMPORT_PATH)/$(ARCH)$(_JDK_IMPORT_VARIANT)
endif
JDK_IMPORT_PATH:=$(call AltCheckValue,JDK_IMPORT_PATH)

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# Warning: the following variables are overridden by Defs.gmk. Set
# values will be silently ignored:
#   CFLAGS        (set $(OTHER_CFLAGS) instead)
#   CPPFLAGS      (set $(OTHER_CPPFLAGS) instead)
#   CXXFLAGS      (set $(OTHER_CXXFLAGS) instead)
#   LDFLAGS       (set $(OTHER_LDFLAGS) instead)
#   LDLIBS        (set $(EXTRA_LIBS) instead)
#   LDLIBS_COMMON (set $(EXTRA_LIBS) instead)

# Get shared JDK settings
include $(BUILDDIR)/common/shared/Defs.gmk

ifndef PLATFORM_SRC
  PLATFORM_SRC = $(TOPDIR)/src/solaris
endif # PLATFORM_SRC

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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a <code>java.io.FilePermission</code> object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * <code>java.lang.RuntimePermission</code>,
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the <code>implies</code> method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
if one is granted permission p1, one is naturally granted permission p2. Thus, this is not an equality test, but rather more of a subset test.

Permission objects are similar to String objects in that they are immutable once they have been created. Subclasses should not provide methods that can change the state of a permission once it has been created.

@see Permissions
@see PermissionCollection

@author Marianne Mueller
@author Roland Schemers

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * { @code SecurityManager.checkPermission} method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     *
     * @throws SecurityException
     *        if a security manager exists and its
     *        { @code checkPermission} method doesn't allow access.
     *
     * @see Guard
     */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 *
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 *
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 *
 * The required [ @code hashCode] behavior for Permission Objects is
 * the following:
 *
 * Whenever it is invoked on the same Permission object more than
once during an execution of a Java application, the
* [hashCode] method
* must consistently return the same integer. This integer need not
* remain consistent from one execution of an application to another
* execution of the same application.
* <li>If two Permission objects are equal according to the
* [hashCode] method, then calling the [hashCode] method on each of the
* two Permission objects must produce the same integer result.
* </ul>
*
* @return a hash code value for this object.
*/

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a [java.io.FilePermission],
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the [getActions] method is invoked.
 *
 * @return the actions of this Permission.
 */

*/
public abstract String getActions();

/**
* Returns an empty PermissionCollection for a given Permission object, or null if
* one is not defined. Subclasses of class Permission should
* override this if they need to store their permissions in a particular
* PermissionCollection object in order to provide the correct semantics
* when the \{@code PermissionCollection.implies\} method is called.
* If null is returned,
* then the caller of this method is free to store permissions of this
* type in any PermissionCollection they choose (one that uses a Hashtable,
* one that uses a Vector, etc).
*
* @return a new PermissionCollection object for this type of Permission, or
* null if one is not defined.
*/

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
* Returns a string describing this Permission. The convention is to
* specify the class name, the permission name, and the actions in
* the following format: \{"ClassName" "name" "actions"\}, or
* \{"ClassName" "name"\} if actions list is null or empty.
*
* @return information about this Permission.
*/

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + actions + ")";
    }
}

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* questions.
*/

package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

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1.590 Java-WebSocket 1.3.0

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1.1

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1.604 Javassist 3.20.0-GA

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Javassist version 3

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/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
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 * See &lt;a href='http://www.saxproject.org'>http://www.saxproject.org&lt;/a&gt;
 * for further information.
 * &lt;/blockquote&gt;
 *
 * &lt;p&gt;This class provides a default implementation of the SAX2
 * { @link org.xml.sax.Attributes Attributes} interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.&lt;/p&gt;
 *
 * &lt;p&gt;There are two typical uses of this class:&lt;/p&gt;
 *
 * &lt;ol&gt;
 * &lt;li&gt;to take a persistent snapshot of an Attributes object
 * in a { @link org.xml.sax.ContentHandler#startElement startElement} event; or&lt;/li&gt;
 * &lt;li&gt;to construct or modify an Attributes object in a SAX2 driver or filter.&lt;/li&gt;
 * &lt;/ol&gt;
 *
 * &lt;p&gt;This class replaces the now-deprecated SAX1 { @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl} class; in addition to supporting the updated Attributes
 * interface rather than the deprecated { @link org.xml.sax.AttributeList
 * AttributeList} interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.&lt;/p&gt;
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
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Amendment II

A well regulated militia, being necessary to the security of a free state, the right of the people to keep and bear arms,
shall not be infringed.
Amendment III

No soldier shall, in time of peace be quartered in any house, without the consent of the owner, nor in time of war, but in a manner to be prescribed by law.

Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

Amendment V

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

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

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

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

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

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

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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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1.646 JCraft JSch 0.1.52

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1.647 jctools-core 2.1.1

1.648 jdbc-jtds 1.2.8

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
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1.700 jersey-server 1.3

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<thead>
<tr>
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<th>Date added</th>
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<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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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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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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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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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

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The binary file of the original library has been modified by Atlassian in such way that classes have changed
their package name from 'com.lowagie' to 'clover.com.lowagie'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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their package name from 'com.google.json' to 'clover.com.google.json'. This was necessary to
avoid potential name conflicts during instrumentation of a code using the original library when using Clover.
No source code of the original library was modified.

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/*
 File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Author:

Nicolas Garcia Belmonte

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   Version 2.1, February 1999
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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 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
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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* b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
* 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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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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 * 
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 * 
 * Author: Mark J Panaghiston
 * Version: 2.4.0
 * Date: 5th June 2013
 * 
 * FlashVars expected: (AS3 property of: loaderInfo.parameters)
 * id: (URL Encoded: String) Id of jPlayer instance
 */
*vol:(Number) Sets the initial volume
*muted:(Boolean in a String) Sets the initial muted state
*jQuery:(URL Encoded: String) Sets the jQuery var name. Used with: someVar = jQuery.noConflict(true); The someVar name must contain jQuery in it.

* Compiled using: Adobe Flex Compiler (mxmlc) Version 4.5.1 build 21328
*/
/*
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* http://www.jplayer.org
*
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*
* Author: Robert M. Hall
* Date: 7th August 2012
* Custom NetConnection Manager for more robust RTMP support
* Based in part on work by Will Law for the old Akamai NCManager.as
* and some of Will's new work in the OVP base classes (Open Video Player)
* as well as similar approaches by many other NetConnection managers
*
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*
* Author: Mark J Panaghiston
* Version: 2.3.0
* Date: 20th April 2013
*
* Requires:
* - jQuery 1.7.0+
* - jPlayer 2.3.0+
*/
/*
* jPlayerInspector Plugin for jPlayer Plugin for jQuery JavaScript Library
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* Version: 1.0.4 
* Date: 29th January 2013 
* 
* For use with jPlayer Version: 2.2.19+ 
* 
* Note: Declare inspector instances after jPlayer instances. ie., Otherwise the jPlayer instance is nonsense. 
*/

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1.733 jquery 3.3.1

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 * jQuery JSON Plugin
 * version: 1.0 (2008-04-17)
 *
 * This document is licensed as free software under the terms of the
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 *
 * Brantley Harris technically wrote this plugin, but it is based somewhat
 * on the JSON.org website's http://www.json.org/json2.js, which proclaims:
 * "NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.", a sentiment that
 * I uphold. I really just cleaned it up.
 *
 * It is also based heavily on MochiKit's serializeJSON, which is
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*/

(function(f){if(typeof exports==='object'&&typeof module==='undefined'){module.exports=f()}else if(typeof define==='function'&&typeof define.amd){define([],f)}else{var g;if(typeof window==='undefined'){g=window}else if(typeof global==='undefined'){g=global}else if(typeof self==='undefined'){g=self}else{g=this}g.JSZip = f()})();
var _keyStr = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=

// public method for encoding
exports.encode = function(input) {
    var output = [];
    var chr1, chr2, chr3, enc1, enc2, enc3, enc4;
    var i = 0, len = input.length, remainingBytes = len;

    var isArray = utils.getTypeOf(input) !== "string";
    while (i < input.length) {
        remainingBytes = len - i;

        if (!isArray) {
            chr1 = input.charCodeAt(i++);
            chr2 = i < len ? input.charCodeAt(i++) : 0;
            chr3 = i < len ? input.charCodeAt(i++) : 0;
        } else {
            chr1 = input[i++];
            chr2 = i < len ? input[i++] : 0;
            chr3 = i < len ? input[i++] : 0;
        }

        enc1 = chr1 >> 2;
        enc2 = ((chr1 & 3) << 4) | (chr2 >> 4);
        enc3 = remainingBytes > 1 ? (((chr2 & 15) << 2) | (chr3 >> 6)) : 64;
        enc4 = remainingBytes > 2 ? (chr3 & 63) : 64;

        output.push(_keyStr.charAt(enc1) + _keyStr.charAt(enc2) + _keyStr.charAt(enc3) + _keyStr.charAt(enc4));
    }

    return output.join("\n");
};

// public method for decoding
exports.decode = function(input) {
    var chr1, chr2, chr3;
    var enc1, enc2, enc3, enc4;
    var i = 0, resultIndex = 0;

    var dataUrlPrefix = "data:";

    if (input.substr(0, dataUrlPrefix.length) === dataUrlPrefix) {
        // This is a common error: people give a data url
        // (data:image/png;base64,iVBOR...) with a {base64: true} and
        // wonders why things don't work.
        // We can detect that the string input looks like a data url but we

    }
// *can't* be sure it is one: removing everything up to the comma would
// be too dangerous.
throw new Error("Invalid base64 input, it looks like a data url.");
}

input = input.replace(/[^A-Za-z0-9+\/=]/g, "");

var totalLength = input.length * 3 / 4;
if(input.charAt(input.length - 1) !== _keyStr.charAt(64)) {
    totalLength--;
}
if(input.charAt(input.length - 2) !== _keyStr.charAt(64)) {
    totalLength--;
}
if (totalLength % 1 !== 0) {
    // totalLength is not an integer, the length does not match a valid
    // base64 content. That can happen if:
    // - the input is not a base64 content
    // - the input is *almost* a base64 content, with a extra chars at the
    //   beginning or at the end
    // - the input uses a base64 variant (base64url for example)
    throw new Error("Invalid base64 input, bad content length.");
}

var output;
if (support.uint8array) {
    output = new Uint8Array(totalLength|0);
} else {
    output = new Array(totalLength|0);
}

while (i < input.length) {
    enc1 = _keyStr.indexOf(input.charAt(i++));
    enc2 = _keyStr.indexOf(input.charAt(i++));
    enc3 = _keyStr.indexOf(input.charAt(i++));
    enc4 = _keyStr.indexOf(input.charAt(i++));

    chr1 = (enc1 << 2) | (enc2 >> 4);
    chr2 = ((enc2 & 15) << 4) | (enc3 >> 2);
    chr3 = ((enc3 & 3) << 6) | enc4;

    output[resultIndex++] = chr1;

    if (enc3 !== 64) {
        output[resultIndex++] = chr2;
    }
    if (enc4 !== 64) {
        output[resultIndex++] = chr3;
    }

    if (enc5 !== 64) {
        output[resultIndex++] = chr4;
    }
}
return output;

var external = require("./external");
var DataWorker = require('./stream/DataWorker');
var DataLengthProbe = require('./stream/DataLengthProbe');
var Crc32Probe = require('./stream/Crc32Probe');
var DataLengthProbe = require('./stream/DataLengthProbe');

/**
 * Represent a compressed object, with everything needed to decompress it.
 * @constructor
 * @param {number} compressedSize the size of the data compressed.
 * @param {number} uncompressedSize the size of the data after decompression.
 * @param {number} crc32 the crc32 of the decompressed file.
 * @param {object} compression the type of compression, see lib/compressions.js.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the compressed data.
 */
function CompressedObject(compressedSize, uncompressedSize, crc32, compression, data) {
    this.compressedSize = compressedSize;
    this.uncompressedSize = uncompressedSize;
    this.crc32 = crc32;
    this.compression = compression;
    this.compressedContent = data;
}

CompressedObject.prototype = {

    /**
     * Create a worker to get the uncompressed content.
     * @return {GenericWorker} the worker.
     */
    getContentWorker : function () {
        var worker = new DataWorker(external.Promise.resolve(this.compressedContent))
            .pipe(this.compression.uncompressWorker())
            .pipe(new DataLengthProbe("data_length"));

        var that = this;
        worker.on("end", function () {
            if(this.streamInfo['data_length'] !== that.uncompressedSize) {
                throw new Error("Bug : uncompressed data size mismatch");
            }
        });
    }
}
getCompressedWorker : function () {
    return new DataWorker(external.Promise.resolve(this.compressedContent))
        .withStreamInfo("compressedSize", this.compressedSize)
        .withStreamInfo("uncompressedSize", this.uncompressedSize)
        .withStreamInfo("crc32", this.crc32)
        .withStreamInfo("compression", this.compression)
    ;
};

/**
 * Chain the given worker with other workers to compress the content with the
 * given compression.
 * @param {GenericWorker} uncompressedWorker the worker to pipe.
 * @param {Object} compression the compression object.
 * @param {Object} compressionOptions the options to use when compressing.
 * @return {GenericWorker} the new worker compressing the content.
 */
CompressedObject.createWorkerFrom = function (uncompressedWorker, compression, compressionOptions) {
    return uncompressedWorker
        .pipe(new Crc32Probe())
        .pipe(new DataLengthProbe("uncompressedSize"))
        .pipe(compression.compressWorker(compressionOptions))
        .pipe(new DataLengthProbe("compressedSize"))
        .withStreamInfo("compression", compression);
};

module.exports = CompressedObject;

var GenericWorker = require("./stream/GenericWorker");

exports.STORE = {
    magic: "\x00\x00",
    compressWorker : function (compressionOptions) {
        return new GenericWorker("STORE compression");
    },
    uncompressWorker : function () {

return new GenericWorker("STORE decompression");
}
};
exports.DEFLATE = require(’./flate’);

return new GenericWorker("STORE decompression");
}
};
exports.DEFLATE = require(’./flate’);

var utils = require(’/utils’);

/**
 * The following functions come from pako, from pako/lib/zlib/crc32.js
 * released under the MIT license, see pako https://github.com/nodeca/pako/
 */

// Use ordinary array, since untyped makes no boost here
function makeTable() {
    var c, table = [];
    for(var n =0; n < 256; n++)
    {
        c = n;
        for(var k =0; k < 8; k++)
        {
            c = ((c&1) ? (0xEDB88320 ^ (c >>> 1)) : (c >>> 1));
        }
        table[n] = c;
    }
    return table;
}

var crcTable = makeTable();

function crc32(crc, buf, len, pos) {
    var t = crcTable, end = pos + len;

crc = crc ^ (-1);

for (var i = pos; i < end; i++ ) {
    crc = (crc >>> 8) ^ t[(crc ^ buf[i]) & 0xFF];
}

return (crc ^ (-1)); // >>> 0;
}

// That's all for the pako functions.
/**
 * Compute the crc32 of a string.
 * This is almost the same as the function crc32, but for strings. Using the
 * same function for the two use cases leads to horrible performances.
 * @param {Number} crc the starting value of the crc.
 * @param {String} str the string to use.
 * @param {Number} len the length of the string.
 * @param {Number} pos the starting position for the crc32 computation.
 * @return {Number} the computed crc32.
 */
function crc32str(crc, str, len, pos) {
    var t = crcTable, end = pos + len;

    crc = crc ^ (-1);

    for (var i = pos; i < end; i++) {
        crc = (crc >>> 8) ^ t[(crc ^ str.charCodeAt(i)) & 0xFF];
    }

    return (crc ^ (-1)); // >>> 0;
}

module.exports = function crc32wrapper(input, crc) {
    if (typeof input === "undefined" || !input.length) {
        return 0;
    }

    var isArray = utils.getTypeOf(input) !== "string";

    if(isArray) {
        return crc32(crc|0, input, input.length, 0);
    } else {
        return crc32str(crc|0, input, input.length, 0);
    }
};
'use strict';

// load the global object first:
// - it should be better integrated in the system (unhandledRejection in node)
// - the environment may have a custom Promise implementation (see zone.js)
var ES6Promise = null;
if (typeof Promise !== "undefined") {
  ES6Promise = Promise;
} else {
  ES6Promise = require("lie");
}

/**
 * Let the user use/change some implementations.
 * /
module.exports = {
  Promise: ES6Promise
};

/*
 * Create a worker that uses pako to inflate/deflate.
 * @constructor
 * @param {String} action the name of the pako function to call : either "Deflate" or "Inflate".
 * @param {Object} options the options to use when (de)compressing.
 * /
function FlateWorker(action, options) {
  GenericWorker.call(this, "FlateWorker/" + action);

  this._pako = null;
  this._pakoAction = action;
  this._pakoOptions = options;
  // the `meta` object from the last chunk received

  var USE_TYPEDARRAY = (typeof Uint8Array !== 'undefined') && (typeof Uint16Array !== 'undefined') &&
    (typeof Uint32Array !== 'undefined');

  var pako = require("pako");
  var util = require("./utils");
  var GenericWorker = require("./stream/GenericWorker");

  var ARRAY_TYPE = USE_TYPEDARRAY ? "uint8array" : "array";

  exports.magic = "\x08\x00";

  /**
   * Create a worker that uses pako to inflate/deflate.
   * @constructor
   * @param {String} action the name of the pako function to call : either "Deflate" or "Inflate".
   * @param {Object} options the options to use when (de)compressing.
   * /
   function FlateWorker(action, options) {
     GenericWorker.call(this, "FlateWorker/" + action);

     this._pako = null;
     this._pakoAction = action;
     this._pakoOptions = options;
     // the `meta` object from the last chunk received

     var USE_TYPEDARRAY = (typeof Uint8Array !== 'undefined') && (typeof Uint16Array !== 'undefined') &&
       (typeof Uint32Array !== 'undefined');

     var pako = require("pako");
     var util = require("./utils");
     var GenericWorker = require("./stream/GenericWorker");

     var ARRAY_TYPE = USE_TYPEDARRAY ? "uint8array" : "array";

     exports.magic = "\x08\x00";
// this allow this worker to pass around metadata
this.meta = {};
}

utils.inherits(FlateWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
FlateWorker.prototype.processChunk = function (chunk) {
    this.meta = chunk.meta;
    if (this._pako === null) {
        this._createPako();
    }
    this._pako.push(utils.transformTo(ARRAY_TYPE, chunk.data), false);
};

/**
 * @see GenericWorker.flush
 */
FlateWorker.prototype.flush = function () {
    GenericWorker.prototype.flush.call(this);
    if (this._pako === null) {
        this._createPako();
    }
    this._pako.push([], true);
};

/**
 * @see GenericWorker.cleanUp
 */
FlateWorker.prototype.cleanUp = function () {
    GenericWorker.prototype.cleanUp.call(this);
    this._pako = null;
};

/**
 * Create the _pako object.
 * TODO: lazy-loading this object isn't the best solution but it's the
 * quickest. The best solution is to lazy-load the worker list. See also the
 * issue #446.
 */
FlateWorker.prototype._createPako = function () {
    this._pako = new pako[this._pakoAction]({
        raw: true,
        level: this._pakoOptions.level || -1 // default compression
    });
    var self = this;
    this._pako.onData = function(data) {
self.push(
  data : data,
  meta : self.meta
));
};
};

exports.compressWorker = function (compressionOptions) {
  return new FlateWorker("Deflate", compressionOptions);
};
exports.uncompressWorker = function () {
  return new FlateWorker("Inflate", {});
};

var utils = require('./utils');
var GenericWorker = require('./stream/GenericWorker');
var utf8 = require('./utf8');
var crc32 = require('./crc32');
var signature = require('./signature');

/**
 * Transform an integer into a string in hexadecimal.
 * @private
 * @param {number} dec the number to convert.
 * @param {number} bytes the number of bytes to generate.
 * @returns {string} the result.
 */
var decToHex = function(dec, bytes) {
  var hex = ", i;
  for (i = 0; i < bytes; i++) {
    hex += String.fromCharCode(dec & 0xff);
    dec = dec >>> 8;
  }
  return hex;
};

/**
 * Generate the UNIX part of the external file attributes.
 * @param {Object} unixPermissions the unix permissions or null.
 * @param {Boolean} isDir true if the entry is a directory, false otherwise.
 * @returns {Number} a 32 bit integer.
 */
var unixPermissions = function(isDir) {
  var hex = "TTTTstrwxrwxrwx0000000000ADVSHR";
var generateUnixExternalFileAttr = function (unixPermissions, isDir) {
    var result = unixPermissions;
    if (!unixPermissions) {
        // I can't use octal values in strict mode, hence the hexa.
        // 040775 => 0x41fd
        // 0100664 => 0x81b4
        result = isDir ? 0x41fd : 0x81b4;
    }
    return (result & 0xFFFF) << 16;
};

var generateDosExternalFileAttr = function (dosPermissions, isDir) {
    // the dir flag is already set for compatibility
    return (dosPermissions || 0) & 0x3F;
};

var generateZipParts = function(streamInfo, streamedContent, streamingEnded, offset, platform, encodeFileName) {

    // the dir flag is already set for compatibility
    return (dosPermissions || 0) & 0x3F;
};
var file = streamInfo['file'],
compression = streamInfo['compression'],
useCustomEncoding = encodeFileName !== utf8.utf8encode,
encodedFileName = _utils_.transformTo('string', encodeFileName(file.name)),
utfEncodedFileName = _utils_.transformTo('string', utf8.utf8encode(file.name)),
comment = file.comment,
encodedComment = _utils_.transformTo('string', encodeFileName(comment)),
utfEncodedComment = _utils_.transformTo('string', utf8.utf8encode(comment)),
useUTF8ForFileName = utfEncodedFileName.length !== file.name.length,
useUTF8ForComment = utfEncodedComment.length !== comment.length,
dosTime,
dosDate,
extraFields = '',
unicodePathExtraField = '',
unicodeCommentExtraField = '',
dir = file.dir,
date = file.date;

var dataInfo = {
  crc32 : 0,
  compressedSize : 0,
  uncompressedSize : 0
};

// if the content is streamed, the sizes/crc32 are only available AFTER
// the end of the stream.
if (!streamedContent || streamingEnded) {
  dataInfo.crc32 = streamInfo['crc32'];
  dataInfo.compressedSize = streamInfo['compressedSize'];
  dataInfo.uncompressedSize = streamInfo['uncompressedSize'];
}

var bitflag = 0;
if (streamedContent) {
  // Bit 3: the sizes/crc32 are set to zero in the local header.
  // The correct values are put in the data descriptor immediately
  // following the compressed data.
  bitflag |= 0x0008;
}
if (!useCustomEncoding && (useUTF8ForFileName || useUTF8ForComment)) {
  // Bit 11: Language encoding flag (EFS).
  bitflag |= 0x0800;
}

var extFileAttr = 0;
var versionMadeBy = 0;
if (dir) {
    // dos or unix, we set the dos dir flag
    extFileAttr |= 0x00010;
}

if(platform === "UNIX") {
    versionMadeBy = 0x031E; // UNIX, version 3.0
    extFileAttr |= generateUnixExternalFileAttr(file.unixPermissions, dir);
} else { // DOS or other, fallback to DOS
    versionMadeBy = 0x0014; // DOS, version 2.0
    extFileAttr |= generateDosExternalFileAttr(file.dosPermissions, dir);
}

// date
//@see http://www.delorie.com/djgpp/doc/rbinter/it/52/13.html
//@see http://www.delorie.com/djgpp/doc/rbinter/it/65/16.html
//@see http://www.delorie.com/djgpp/doc/rbinter/it/66/16.html

dosTime = date.getUTCHours();
dosTime = dosTime << 6;
dosTime = dosTime | date.getUTCMinutes();
dosTime = dosTime << 5;
dosTime = dosTime | date.getUTCSeconds() / 2;

dosDate = date.getUTCFullYear() - 1980;
dosDate = dosDate << 4;
dosDate = dosDate | (date.getUTCMonth() + 1);
dosDate = dosDate << 5;
dosDate = dosDate | date.getUTCDate();

if (useUTF8ForFileName) {
    // set the unicode path extra field. unzip needs at least one extra
    // field to correctly handle unicode path, so using the path is as good
    // as any other information. This could improve the situation with
    // other archive managers too.
    // This field is usually used without the utf8 flag, with a non
    // unicode path in the header (winrar, winzip). This helps (a bit)
    // with the messy Windows' default compressed folders feature but
    // breaks on p7zip which doesn't seek the unicode path extra field.
    // So for now, UTF-8 everywhere !
    unicodePathExtraField =
        // Version
        decToHex(1, 1) +
        // NameCRC32
        decToHex(crc32(encodedFileName), 4) +
        // UnicodeName
        utfEncodedFileName;

    extraFields +=
}
// Info-ZIP Unicode Path Extra Field
"\x75\x70" +
// size
decToHex(unicodePathExtraField.length, 2) +
// content
unicodePathExtraField;
}

if(useUTF8ForComment) {

unicodeCommentExtraField =
  // Version
decToHex(1, 1) +
  // CommentCRC32
decToHex(crc32(encodedComment), 4) +
  // UnicodeName
utfEncodedComment;

extraFields +=
  // Info-ZIP Unicode Path Extra Field
"\x75\x63" +
  // size
decToHex(unicodeCommentExtraField.length, 2) +
  // content
unicodeCommentExtraField;
}

var header = "";

// version needed to extract
header += "\x0A\x00";
// general purpose bit flag
header += decToHex(bitflag, 2);
// compression method
header += compression.magic;
// last mod file time
header += decToHex(dosTime, 2);
// last mod file date
header += decToHex(dosDate, 2);
// crc-32
header += decToHex(dataInfo.crc32, 4);
// compressed size
header += decToHex(dataInfo.compressedSize, 4);
// uncompressed size
header += decToHex(dataInfo.uncompressedSize, 4);
// file name length
header += decToHex(encodedFileName.length, 2);
// extra field length
header += decToHex(extraFields.length, 2);

var fileRecord = signature.LOCAL_FILE_HEADER + header + encodedFileName + extraFields;

var dirRecord = signature.CENTRAL_FILE_HEADER +
    // version made by (00: DOS)
    decToHex(versionMadeBy, 2) +
    // file header (common to file and central directory)
    header +
    // file comment length
    decToHex(encodedComment.length, 2) +
    // disk number start
    "\x00\x00" +
    // internal file attributes TODO
    "\x00\x00" +
    // external file attributes
    decToHex(extFileAttr, 4) +
    // relative offset of local header
    decToHex(offset, 4) +
    // file name
    encodedFileName +
    // extra field
    extraFields +
    // file comment
    encodedComment;

return {
    fileRecord: fileRecord,
    dirRecord: dirRecord
};

/**
 * Generate the EOCD record.
 * @param {Number} entriesCount the number of entries in the zip file.
 * @param {Number} centralDirLength the length (in bytes) of the central dir.
 * @param {Number} localDirLength the length (in bytes) of the local dir.
 * @param {String} comment the zip file comment as a binary string.
 * @param {Function} encodeFileName the function to encode the comment.
 * @return {String} the EOCD record.
 */
var generateCentralDirectoryEnd = function (entriesCount, centralDirLength, localDirLength, comment,
    encodeFileName) {
    var dirEnd = ""
    var encodedComment = utils.transformTo("string", encodeFileName(comment));

    // end of central dir signature
dirEnd = signature.CENTRAL_DIRECTORY_END +
    // number of this disk
    "\x00\x00" +
    // number of the disk with the start of the central directory
    "\x00\x00" +
    // total number of entries in the central directory on this disk
    decToHex(entriesCount, 2) +
    // total number of entries in the central directory
    decToHex(entriesCount, 2) +
    // size of the central directory 4 bytes
    decToHex(centralDirLength, 4) +
    // offset of start of central directory with respect to the starting disk number
    decToHex(localDirLength, 4) +
    // .ZIP file comment length
    decToHex(encodedComment.length, 2) +
    // .ZIP file comment
    encodedComment;

    return dirEnd;
};

/**
 * Generate data descriptors for a file entry.
 * @param {Object} streamInfo the hash generated by a worker, containing information
 * on the file entry.
 * @return {String} the data descriptors.
 */
var generateDataDescriptors = function (streamInfo) {
    var descriptor = "";
    descriptor = signature.DATA_DESCRIPTOR +
        // crc-32 4 bytes
        decToHex(streamInfo['crc32'], 4) +
        // compressed size 4 bytes
        decToHex(streamInfo['compressedSize'], 4) +
        // uncompressed size 4 bytes
        decToHex(streamInfo['uncompressedSize'], 4);

    return descriptor;
};

/**
 * A worker to concatenate other workers to create a zip file.
 * @param {Boolean} streamFiles `true` to stream the content of the files, `false` to accumulate it.
 * @param {String} comment the comment to use.
 * @param {String} platform the platform to use, "UNIX" or "DOS".
 * @param {Function} encodeFileName the function to encode file names and comments.
 */
function ZipFileWorker(streamFiles, comment, platform, encodeFileName) {
    GenericWorker.call(this, "ZipFileWorker");
    // The number of bytes written so far. This doesn't count accumulated chunks.
    this.bytesWritten = 0;
    // The comment of the zip file
    this.zipComment = comment;
    // The platform "generating" the zip file.
    this.zipPlatform = platform;
    // the function to encode file names and comments.
    this.encodeFileName = encodeFileName;
    // Should we stream the content of the files ?
    this.streamFiles = streamFiles;
    // If `streamFiles` is false, we will need to accumulate the content of the
    // files to calculate sizes / crc32 (and write them *before* the content).
    // This boolean indicates if we are accumulating chunks (it will change a lot
    // during the lifetime of this worker).
    this.accumulate = false;
    // The buffer receiving chunks when accumulating content.
    this.contentBuffer = [];
    // The list of generated directory records.
    this.dirRecords = [];
    // The offset (in bytes) from the beginning of the zip file for the current source.
    this.currentSourceOffset = 0;
    // The total number of entries in this zip file.
    this.entriesCount = 0;
    // the name of the file currently being added, null when handling the end of the zip file.
    // Used for the emitted metadata.
    this.currentFile = null;

    this._sources = [];
}
utils.inherits(ZipFileWorker, GenericWorker);

/**
 * @see GenericWorker.push
 */
ZipFileWorker.prototype.push = function (chunk) {

    var currentFilePercent = chunk.meta.percent || 0;
    var entriesCount = this.entriesCount;
    var remainingFiles = this._sources.length;

    if(this.accumulate) {
        this.contentBuffer.push(chunk);
    } else {


this.bytesWritten += chunk.data.length;

GenericWorker.prototype.push.call(this, {
  data : chunk.data,
  meta : {
    currentFile : this.currentFile,
    percent : entriesCount ? (currentFilePercent + 100 * (entriesCount - remainingFiles - 1)) / entriesCount : 100
  }
});
);
};

/**
 * The worker started a new source (an other worker).
 * @param {Object} streamInfo the streamInfo object from the new source.
 */
ZipFileWorker.prototype.openedSource = function (streamInfo) {
  this.currentSourceOffset = this.bytesWritten;
  this.currentFile = streamInfo['file'].name;

  var streamedContent = this.streamFiles && !streamInfo['file'].dir;

  // don't stream folders (because they don't have any content)
  if(streamedContent) {
    var record = generateZipParts(streamInfo, streamedContent, false, this.currentSourceOffset, this.zipPlatform, this.encodeFileName);
    this.push({
      data : record.fileRecord,
      meta : {percent:0}
    });
  } else {
    // we need to wait for the whole file before pushing anything
    this.accumulate = true;
  }
};

/**
 * The worker finished a source (an other worker).
 * @param {Object} streamInfo the streamInfo object from the finished source.
 */
ZipFileWorker.prototype.closedSource = function (streamInfo) {
  this.accumulate = false;
  var streamedContent = this.streamFiles && !streamInfo['file'].dir;
  var record = generateZipParts(streamInfo, streamedContent, true, this.currentSourceOffset, this.zipPlatform, this.encodeFileName);

  this.dirRecords.push(record.dirRecord);
if(streamedContent) {
    // after the streamed file, we put data descriptors
    this.push({
        data : generateDataDescriptors(streamInfo),
        meta : {percent:100}
    });
} else {
    // the content wasn't streamed, we need to push everything now
    // first the file record, then the content
    this.push({
        data : record.fileRecord,
        meta : {percent:0}
    });
    while(this.contentBuffer.length) {
        this.push(this.contentBuffer.shift());
    }
    this.currentFile = null;
}

/**
 * @see GenericWorker.flush
 */
ZipFileWorker.prototype.flush = function () {
    var localDirLength = this.bytesWritten;
    for(var i = 0; i < this.dirRecords.length; i++) {
        this.push({
            data : this.dirRecords[i],
            meta : {percent:100}
        });
    }
    var centralDirLength = this.bytesWritten - localDirLength;

    var dirEnd = generateCentralDirectoryEnd(this.dirRecords.length, centralDirLength, localDirLength,
                                                this.zipComment, this.encodeFileName);

    this.push({
        data : dirEnd,
        meta : {percent:100}
    });
}

/**
 * Prepare the next source to be read.
 */
ZipFileWorker.prototype.prepareNextSource = function () {
    this.previous = this._sources.shift();
this.openedSource(this.previous.streamInfo);
if (this.isPaused) {
    this.previous.pause();
} else {
    this.previous.resume();
}
};

/**
 * @see GenericWorker.registerPrevious
 */
ZipFileWorker.prototype.registerPrevious = function (previous) {
    this._sources.push(previous);
    var self = this;

    previous.on('data', function (chunk) {
        self.processChunk(chunk);
    });
    previous.on('end', function () {
        self.closedSource(self.previous.streamInfo);
        if(self._sources.length) {
            self.prepareNextSource();
        } else {
            self.end();
        }
    });
    previous.on('error', function (e) {
        self.error(e);
    });
    return this;
};

/**
 * @see GenericWorker.resume
 */
ZipFileWorker.prototype.resume = function () {
    if(!GenericWorker.prototype.resume.call(this)) {
        return false;
    }
    if (!this.previous && this._sources.length) {
        this.prepareNextSource();
        return true;
    }
    if (!this.previous && !this._sources.length && !this.generatedError) {
        this.end();
    }
};
ZipFileWorker.prototype.error = function (e) {
    var sources = this._sources;
    if(!GenericWorker.prototype.error.call(this, e)) {
        return false;
    }
    for(var i = 0; i < sources.length; i++) {
        try {
            sources[i].error(e);
        } catch(e) {
            // the `error` exploded, nothing to do
        }
    }
    return true;
};

*/
* @see GenericWorker.lock
*/
ZipFileWorker.prototype.lock = function () {
    GenericWorker.prototype.lock.call(this);
    var sources = this._sources;
    for(var i = 0; i < sources.length; i++) {
        sources[i].lock();
    }
};

module.exports = ZipFileWorker;

var getCompression = function (fileCompression, zipCompression) {
    var compressions = require('./compressions');
    var ZipFileWorker = require('./ZipFileWorker');

    /*
    * Find the compression to use.
    * @param {String} fileCompression the compression defined at the file level, if any.
    * @param {String} zipCompression the compression defined at the load() level.
    * @return {Object} the compression object to use.
    */
    var getCompression = function (fileCompression, zipCompression) {

var compressionName = fileCompression || zipCompression;
var compression = compressions[compressionName];
if (!compression) {
    throw new Error(compressionName + " is not a valid compression method!");
}
return compression;

/**
 * Create a worker to generate a zip file.
 * @param {JSZip} zip the JSZip instance at the right root level.
 * @param {Object} options to generate the zip file.
 * @param {String} comment the comment to use.
 */
extports.generateWorker = function (zip, options, comment) {

    var zipFileWorker = new ZipFileWorker(options.streamFiles, comment, options.platform,
        options.encodeFileName);
    var entriesCount = 0;
    try {

        zip.forEach(function (relativePath, file) {
            entriesCount++;
            var compression = getCompression(file.options.compression, options.compression);
            var compressionOptions = file.options.compressionOptions || options.compressionOptions || {};
            var dir = file.dir, date = file.date;
            file._compressWorker(compression, compressionOptions)
                .withStreamInfo("file", { name : relativePath, dir : dir, date : date, comment : file.comment || "", unixPermissions : file.unixPermissions, dosPermissions : file.dosPermissions
                })
                .pipe(zipFileWorker);
        });
        zipFileWorker.entriesCount = entriesCount;
    } catch (e) {
        zipFileWorker.error(e);
    }

    return zipFileWorker;
};

},{"./compressions":3,"./ZipFileWorker":8}],10:[function(require,module,exports){
    'use strict';
/**
 * Representation a of zip file in js
 * @constructor
 */
function JSZip() {
  // if this constructor is used without `new`, it adds `new` before itself:
  if(!(this instanceof JSZip)) {
    return new JSZip();
  }
  if(arguments.length) {
    throw new Error("The constructor with parameters has been removed in JSZip 3.0, please check the upgrade guide.");
  }
  // object containing the files :
  // {
  //   "folder/" : {...},
  //   "folder/data.txt" : {...}
  // }
  this.files = {};
  this.comment = null;
  // Where we are in the hierarchy
  this.root = "";
  this.clone = function() {
    var newObj = new JSZip();
    for (var i in this) {
      if (typeof this[i] !== "function") {
        newObj[i] = this[i];
      }
    }
    return newObj;
  };
  JSZip.prototype = require('./object');
  JSZip.prototype.loadAsync = require('./load');
  JSZip.support = require('./support');
  JSZip.defaults = require('./defaults');

  // TODO find a better way to handle this version,
  // a require('package.json').version doesn't work with webpack, see #327
  JSZip.version = "3.2.0";
  JSZip.loadAsync = function (content, options) {
    return new JSZip().loadAsync(content, options);
```javascript
JSZip.external = require("./external");
module.exports = JSZip;

module.exports = function(data, options) {
  var zip = this;
  options = utils.extend(options || {}); {
    base64: false,
    checkCRC32: false,
    optimizedBinaryString: false,
    createFolders: false,
    decodeFileName: utf8.utf8decode
  });

  if (nodejsUtils.isNode && nodejsUtils.isStream(data)) {
    /*
    * Check the CRC32 of an entry.
    * @param {ZipEntry} zipEntry the zip entry to check.
    * @return {Promise} the result.
    */
    function checkEntryCRC32(zipEntry) {
      return new external.Promise(function (resolve, reject) {
        var worker = zipEntry.decompressed.getContentWorker().pipe(new Crc32Probe());
        worker.on("error", function (e) {
          reject(e);
        })
        .on("end", function () {
          if (worker.streamInfo.crc32 !== zipEntry.decompressed.crc32) {
            reject(new Error("Corrupted zip : CRC32 mismatch"));
          } else {
            resolve();
          }
        })
        .resume();
      });
    }

    return checkEntryCRC32(zipEntry);
  }
```
return external.Promise.reject(new Error("JSZip can't accept a stream when loading a zip file.");)
}

return utils.prepareContent("the loaded zip file", data, true, options.optimizedBinaryString, options.base64)
    .then(function(data) {
        var zipEntries = new ZipEntries(options);
        zipEntries.load(data);
        return zipEntries;
    }).then(function checkCRC32(zipEntries) {
        var promises = [external.Promise.resolve(zipEntries)];
        var files = zipEntries.files;
        if (options.checkCRC32) {
            for (var i = 0; i < files.length; i++) {
                promises.push(checkEntryCRC32(files[i]));
            }
        }
        return external.Promise.all(promises);
    }).then(function addFiles(results) {
        var zipEntries = results.shift();
        var files = zipEntries.files;
        for (var i = 0; i < files.length; i++) {
            var input = files[i];
            zip.file(input.fileNameStr, input.decompressed, {
                binary: true,
                optimizedBinaryString: true,
                date: input.date,
                dir: input.dir,
                comment : input.fileCommentStr.length ? input.fileCommentStr : null,
                unixPermissions : input.unixPermissions,
                dosPermissions : input.dosPermissions,
                createFolders: options.createFolders
            });
        }
        if (zipEntries.zipComment.length) {
            zip.comment = zipEntries.zipComment;
        }
        return zip;
    });
};
/**
* A worker that uses a Node.js stream as source.
* @constructor
* @param {String} filename the name of the file entry for this stream.
* @param {Readable} stream the Node.js stream.
*/
function NodejsStreamInputAdapter(filename, stream) {
    GenericWorker.call(this, "Nodejs stream input adapter for " + filename);
    this._upstreamEnded = false;
    this._bindStream(stream);
}
utils.inherits(NodejsStreamInputAdapter, GenericWorker);

/**
* Prepare the stream and bind the callbacks on it.
* Do this ASAP on node 0.10! A lazy binding doesn't always work.
* @param {Stream} stream the Node.js stream to use.
*/
NodejsStreamInputAdapter.prototype._bindStream = function (stream) {
    var self = this;
    this._stream = stream;
    stream.pause();
    stream.on("data", function (chunk) {
        self.push({
            data: chunk,
            meta: {
                percent: 0
            }
        });
    });
    stream.on("error", function (e) {
        if(self.isPaused) {
            this.generatedError = e;
        } else {
            self.error(e);
        }
    });
    stream.on("end", function () {
        if(self.isPaused) {
            self._upstreamEnded = true;
        } else {
            self.end();
        }
    });
};
NodejsStreamInputAdapter.prototype.pause = function () {

if(!GenericWorker.prototype.pause.call(this)) {
    return false;
}
this._stream.pause();
return true;
};
NodejsStreamInputAdapter.prototype.resume = function () {
    if(!GenericWorker.prototype.resume.call(this)) {
        return false;
    }

    if(this._upstreamEnded) {
        this.end();
    } else {
        this._stream.resume();
    }

    return true;
};

module.exports = NodejsStreamInputAdapter;

}

''

var Readable = require('readable-stream').Readable;

var utils = require('../utils');

utils.inherits(NodejsStreamOutputAdapter, Readable);

/**
 * A nodejs stream using a worker as source.
 * @see the SourceWrapper in http://nodejs.org/api/stream.html
 * @constructor
 * @param {StreamHelper} helper the helper wrapping the worker
 * @param {Object} options the nodejs stream options
 * @param {Function} updateCb the update callback.
 */
function NodejsStreamOutputAdapter(helper, options, updateCb) {
    Readable.call(this, options);
    this._helper = helper;
    var self = this;
    helper.on("data", function (data, meta) {
        if (!self.push(data)) {
            self._helper.pause();
        }
    } if(updateCb) {

var self = this;
helper.on("data", function (data, meta) {
    if (!self.push(data)) {
        self._helper.pause();
    }
    if(updateCb) {
```javascript
updateCb(meta);

}.on("error", function(e) {
    self.emit('error', e);
});

}.on("end", function () {
    self.push(null);
});

NodejsStreamOutputAdapter.prototype._read = function() {
    this._helper.resume();
};

module.exports = NodejsStreamOutputAdapter;

`,

'isNode : typeof Buffer !== "undefined",

/**
 * Create a new nodejs Buffer from an existing content.
 * @param {Object} data the data to pass to the constructor.
 * @param {String} encoding the encoding to use.
 * @return {Buffer} a new Buffer.
 */

newBufferFrom: function(data, encoding) {
    if (Buffer.from && Buffer.from !== Uint8Array.from) {
        return Buffer.from(data, encoding);
    } else {
        if (typeof data === "number") {
            // Safeguard for old Node.js versions. On newer versions,
            // Buffer.from(number) / Buffer(number, encoding) already throw.
            throw new Error("The \"data\" argument must not be a number");
        }
        return new Buffer(data, encoding);
    },

/**
 * Create a new nodejs Buffer with the specified size.
 */
```
* @param {Integer} size the size of the buffer.
* @return {Buffer} a new Buffer.
*/
allocBuffer: function (size) {
    if (Buffer.alloc) {
        return Buffer.alloc(size);
    } else {
        var buf = new Buffer(size);
        buf.fill(0);
        return buf;
    }
},
/**
* Find out if an object is a Buffer.
* @param {Object} b the object to test.
* @return {Boolean} true if the object is a Buffer, false otherwise.
*/
isBuffer : function(b){
    return Buffer.isBuffer(b);
},
isStream : function (obj) {
    return obj &&
        typeof obj.on === "function" &&
        typeof obj.pause === "function" &&
        typeof obj.resume === "function";
};
var fileAdd = function(name, data, originalOptions) {
  // be sure sub folders exist
  var dataType = utils.getTypeOf(data),
      parent;

  /*
   * Correct options.
   */

  var o = utils.extend(originalOptions || {}, defaults);
  o.date = o.date || new Date();
  if (o.compression !== null) {
    o.compression = o.compression.toUpperCase();
  }
  if (typeof o.unixPermissions === "string") {
    o.unixPermissions = parseInt(o.unixPermissions, 8);
  }

  // UNIX_IFDIR 0040000 see zipinfo.c
  if (o.unixPermissions && (o.unixPermissions & 0x4000)) {
    o.dir = true;
  }

  // Bit 4 Directory
  if (o.dosPermissions && (o.dosPermissions & 0x0010)) {
    o.dir = true;
  }

  if (o.dir) {
    name = forceTrailingSlash(name);
  }
  if (o.createFolders && (parent = parentFolder(name))) {
    folderAdd.call(this, parent, true);
  }

  var isUnicodeString = dataType === "string" && o.binary === false && o.base64 === false;
  if (!originalOptions || typeof originalOptions.binary === "undefined") {
    o.binary = !isUnicodeString;
  }

  var isCompressedEmpty = (data instanceof CompressedObject) && data.uncompressedSize === 0;
  if (isCompressedEmpty || o.dir || !data || data.length === 0) {

var zipObjectContent = null;
if (data instanceof CompressedObject || data instanceofof GenericWorker) {
    zipObjectContent = data;
} else if (nodejsUtils.isNode && nodejsUtils.isStream(data)) {
    zipObjectContent = new NodejsStreamInputAdapter(name, data);
} else {
    zipObjectContent = utils.prepareContent(name, data, o.binary, o.optimizedBinaryString, o.base64);
}

var object = new ZipObject(name, zipObjectContent, o);
this.files[name] = object;
/*
TODO: we can't throw an exception because we have async promises
we can have a promise of a Date() for example but returning a
promise is useless because file(name, data) returns the JSZip
object for chaining. Should we break that to allow the user
to catch the error ?
*/
return external.Promise.resolve(zipObjectContent)
.then(function () {
    return object;
});
/*
*/

/**
 * Find the parent folder of the path.
 * @private
 * @param {string} path the path to use
 * @return {string} the parent folder, or 
 */
var parentFolder = function (path) {
    if (path.slice(-1) === '/') {
        path = path.substring(0, path.length - 1);
    }
    var lastSlash = path.lastIndexOf('/');
    return (lastSlash > 0) ? path.substring(0, lastSlash) : ";
*/
var forceTrailingSlash = function(path) {
    // Check the name ends with a /
    if (path.slice(-1) !== "/") {
        path += "/"; // IE doesn't like substr(-1)
    }
    return path;
};

var folderAdd = function(name, createFolders) {
    createFolders = (typeof createFolders !== 'undefined') ? createFolders : defaults.createFolders;
    name = forceTrailingSlash(name);

    // Does this folder already exist?
    if (!this.files[name]) {
        fileAdd.call(this, name, null, {
            dir: true,
            createFolders: createFolders
        });
    }
    return this.files[name];
};

function isRegExp(object) {
    return Object.prototype.toString.call(object) === '[object RegExp]';
}
// return the actual prototype of JSZip

var out = {

/**
   * @see loadAsync
   */
   load: function() {
     throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
   },

/**
   * Call a callback function for each entry at this folder level.
   * @param {Function} cb the callback function:
   * function (relativePath, file) {...}
   * It takes 2 arguments : the relative path and the file.
   */
   forEach: function(cb) {
     var filename, relativePath, file;
     for (filename in this.files) {
       if (!this.files.hasOwnProperty(filename)) {
         continue;
       }
       file = this.files[filename];
       relativePath = filename.slice(this.root.length, filename.length);
       if (relativePath && filename.slice(0, this.root.length) === this.root) { // the file is in the current root
         cb(relativePath, file); // TODO reverse the parameters ? need to be clean AND consistent with the filter
       }
     }
   },

/**
   * Filter nested files/folders with the specified function.
   * @param {Function} search the predicate to use :
   * function (relativePath, file) {...}
   * It takes 2 arguments : the relative path and the file.
   * @return {Array} An array of matching elements.
   */
   filter: function(search) {
     var result = [];
     this.forEach(function (relativePath, entry) {
       if (search(relativePath, entry)) { // the file matches the function
         result.push(entry);
       }
     });
     return result;
// Add a file to the zip file, or search a file.
// @param   {string|RegExp} name The name of the file to add (if data is defined),
// the name of the file to find (if no data) or a regex to match files.
// @param   {String|ArrayBuffer|Uint8Array|Buffer} data  The file data, either raw or base64 encoded
// @param   {Object} o     File options
// @return  {JSZip|Object|Array} this JSZip object (when adding a file),
// a file (when searching by string) or an array of files (when searching by regex).

file: function(name, data, o) {
  if (arguments.length === 1) {
    if (isRegExp(name)) {
      var regexp = name;
      return this.filter(function(relativePath, file) {
        return !file.dir && regexp.test(relativePath);
      });
    } else { // text
      var obj = this.files[this.root + name];
      if (obj && !obj.dir) {
        return obj;
      } else {
        return null;
      }
    }
  }
  else { // more than one argument : we have data !
    name = this.root + name;
    fileAdd.call(this, name, data, o);
  }
  return this;
},

/**
* Add a directory to the zip file, or search.
* @param   {String|RegExp} arg The name of the directory to add, or a regex to search folders.
* @return  {JSZip} an object with the new directory as the root, or an array containing matching folders.
*/

folder: function(arg) {
  if (!arg) {
    return this;
  } else { // more than one argument : we have data !
    name = this.root + name;
    fileAdd.call(this, name, data, o);
  }
  return this;
}
// else, name is a new folder
var name = this.root + arg;
var newFolder = folderAdd.call(this, name);

// Allow chaining by returning a new object with this folder as the root
var ret = this.clone();
ret.root = newFolder.name;
return ret;
},

/**
 * Delete a file, or a directory and all sub-files, from the zip
 * @param {string} name the name of the file to delete
 * @return {JSZip} this JSZip object
 */
remove: function(name) {
    name = this.root + name;
    var file = this.files[name];
    if (!file) {
        // Look for any folders
        if (name.slice(-1) !== "/") {
            name += "/";
        }
        file = this.files[name];
    }
    if (file && !file.dir) {
        // file
        delete this.files[name];
    } else {
        // maybe a folder, delete recursively
        var kids = this.filter(function(relativePath, file) {
            return file.name.slice(0, name.length) === name;
        });
        for (var i = 0; i < kids.length; i++) {
            delete this.files[kids[i].name];
        }
    }
    return this;
},

/**
 * Generate the complete zip file
 * @param {Object} options the options to generate the zip file:

* - compression, "STORE" by default.
* - type, "base64" by default. Values are : string, base64, uint8array, arraybuffer, blob.
* @return {String|Uint8Array|ArrayBuffer|Buffer|Blob} the zip file
*/
generate: function(options) {
  throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
},

/**
* Generate the complete zip file as an internal stream.
* @param {Object} options the options to generate the zip file :
* - compression, "STORE" by default.
* - type, "base64" by default. Values are : string, base64, uint8array, arraybuffer, blob.
* @return {StreamHelper} the streamed zip file.
*/
generateInternalStream: function(options) {
  var worker, opts = {};
  try {
    opts = utils.extend(options || {}, {
      streamFiles: false,
      compression: "STORE",
      compressionOptions : null,
      type: "",
      platform: "DOS",
      comment: null,
      mimeType: 'application/zip',
      encodeFileName: utf8.utf8encode
    });

    opts.type = opts.type.toLowerCase();
    opts.compression = opts.compression.toUpperCase();

    // "binarystring" is preferred but the internals use "string".
    if(opts.type === "binarystring") {
      opts.type = "string";
    }

    if (!opts.type) {
      throw new Error("No output type specified.");
    }

    utils.checkSupport(opts.type);

    // accept nodejs `process.platform`
    if(
      opts.platform === 'darwin'
    )
    
    opts.platform === 'freebsd'
    
    opts.platform === 'linux'
  }
opts.platform === 'sunos'
  ) {
    opts.platform = "UNIX";
  }
if (opts.platform === 'win32') {
  opts.platform = "DOS";
}

var comment = opts.comment || this.comment || "";
worker = generate.generateWorker(this, opts, comment);
} catch (e) {
  worker = new GenericWorker("error");
  worker.error(e);
}
return new StreamHelper(worker, opts.type || "string", opts.mimeType);
},
/**
 * Generate the complete zip file asynchronously.
 * @see generateInternalStream
 */
generateAsync: function(options, onUpdate) {
  return this.generateInternalStream(options).accumulate(onUpdate);
},
/**
 * Generate the complete zip file asynchronously.
 * @see generateInternalStream
 */
generateNodeStream: function(options, onUpdate) {
  options = options || {};
  if (!options.type) {
    options.type = "nodebuffer";
  }
  return this.generateInternalStream(options).toNodejsStream(onUpdate);
}
];
module.exports = out;

/*
 * This file is used by module bundlers (browserify/webpack/etc) when
 * including a stream implementation. We use "readable-stream" to get a
 * consistent behavior between nodejs versions but bundlers often have a shim
 * for "stream". Using this shim greatly improve the compatibility and greatly
 * reduce the final size of the bundle (only one stream implementation, not
 * two).
 * /
*/
module.exports = require("stream");

'use strict';
var DataReader = require('./DataReader');
var utils = require('./utils');

function ArrayReader(data) {
    DataReader.call(this, data);
    for(var i = 0; i < this.data.length; i++) {
        data[i] = data[i] & 0xFF;
    }
    utils.inherits(ArrayReader, DataReader);
    /**
    * @see DataReader.byteAt
    */
    ArrayReader.prototype.byteAt = function(i) {
        return this.data[this.zero + i];
    };
    /**
    * @see DataReader.lastIndexOfSignature
    */
    ArrayReader.prototype.lastIndexOfSignature = function(sig) {
        var sig0 = sig.charCodeAt(0),
            sig1 = sig.charCodeAt(1),
            sig2 = sig.charCodeAt(2),
            sig3 = sig.charCodeAt(3);
        for (var i = this.length - 4; i >= 0; --i) {
            if (this.data[i] === sig0 && this.data[i + 1] === sig1 && this.data[i + 2] === sig2 && this.data[i + 3] === sig3)
            {
                return i - this.zero;
            }
        }
        return -1;
    };
    /**
    * @see DataReader.readAndCheckSignature
    */
    ArrayReader.prototype.readAndCheckSignature = function(sig) {
        var sig0 = sig.charCodeAt(0),
            sig1 = sig.charCodeAt(1),
            sig2 = sig.charCodeAt(2),
            sig3 = sig.charCodeAt(3),
            data = this.readData(4);
        return sig0 === data[0] && sig1 === data[1] && sig2 === data[2] && sig3 === data[3];
    };
/**
 * @see DataReader.readData
 */
ArrayReader.prototype.readData = function(size) {
    this.checkOffset(size);
    if(size === 0) {
        return [];
    }
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};
module.exports = ArrayReader;

function DataReader(data) {
    this.data = data; // type : see implementation
    this.length = data.length;
    this.index = 0;
    this.zero = 0;
}
DataReader.prototype = {
    /**
     * Check that the offset will not go too far.
     * @param {string} offset the additional offset to check.
     * @throws {Error} an Error if the offset is out of bounds.
     */
    checkOffset: function(offset) {
        this.checkIndex(this.index + offset);
    },
    /**
     * Check that the specified index will not be too far.
     * @param {string} newIndex the index to check.
     * @throws {Error} an Error if the index is out of bounds.
     */
    checkIndex: function(newIndex) {
        if (this.length < this.zero + newIndex || newIndex < 0) {
            throw new Error("End of data reached (data length = " + this.length + ", asked index = " + (newIndex) + "). Corrupted zip ?");
        }
    },
    /**
     * Change the index.
     * @param {number} newIndex The new index.
     * @throws {Error} if the new index is out of the data.
     */
setIndex: function(newIndex) {
    this.checkIndex(newIndex);
    this.index = newIndex;
},
/**
* Skip the next n bytes.
* @param {number} n the number of bytes to skip.
* @throws {Error} if the new index is out of the data.
*/
skip: function(n) {
    this.setIndex(this.index + n);
},
/**
* Get the byte at the specified index.
* @param {number} i the index to use.
* @return {number} a byte.
*/
byteAt: function(i) {
    // see implementations
},
/**
* Get the next number with a given byte size.
* @param {number} size the number of bytes to read.
* @return {number} the corresponding number.
*/
readInt: function(size) {
    var result = 0,
        i;
    this.checkOffset(size);
    for (i = this.index + size - 1; i >= this.index; i--) {
        result = (result << 8) + this.byteAt(i);
    }
    this.index += size;
    return result;
},
/**
* Get the next string with a given byte size.
* @param {number} size the number of bytes to read.
* @return {string} the corresponding string.
*/
readString: function(size) {
    return utils.transformTo("string", this.readData(size));
},
/**
* Get raw data without conversion, <size> bytes.
* @param {number} size the number of bytes to read.
* @return {Object} the raw data, implementation specific.
*/
readData: function(size) {
    // see implementations
},

/**
 * Find the last occurrence of a zip signature (4 bytes).
 * @param {string} sig the signature to find.
 * @return {number} the index of the last occurrence, -1 if not found.
 */
lastIndexOfSignature: function(sig) {
    // see implementations
},

/**
 * Read the signature (4 bytes) at the current position and compare it with sig.
 * @param {string} sig the expected signature
 * @return {boolean} true if the signature matches, false otherwise.
 */
readAndCheckSignature: function(sig) {
    // see implementations
},

/**
 * Get the next date.
 * @return {Date} the date.
 */
readDate: function() {
    var dostime = this.readInt(4);
    return new Date(Date.UTC((dostime >> 25) & 0x7f) + 1980, // year
        ((dostime >> 21) & 0x0f) - 1, // month
        (dostime >> 16) & 0x1f, // day
        (dostime >> 11) & 0x1f, // hour
        (dostime >> 5) & 0x3f, // minute
        (dostime & 0x1f) << 1)); // second
}

module.exports = DataReader;

'"./utils":32}],19:[function(require,module,exports){
  'use strict';
  var Uint8ArrayReader = require('./Uint8ArrayReader');
  var utils = require('./../utils');

  function NodeBufferReader(data) {
    Uint8ArrayReader.call(this, data);
  }
  utils.inherits(NodeBufferReader, Uint8ArrayReader);

  /**
NodeBufferReader.prototype.readData = function(size) {
    this.checkOffset(size);
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};
module.exports = NodeBufferReader;

function StringReader(data) {
    DataReader.call(this, data);
}
utils.inherits(StringReader, DataReader);

StringReader.prototype.byteAt = function(i) {
    return this.data.charCodeAt(this.zero + i);
};

StringReader.prototype.lastIndexOfSignature = function(sig) {
    return this.data.lastIndexOf(sig) - this.zero;
};

StringReader.prototype.readAndCheckSignature = function (sig) {
    var data = this.readData(4);
    return sig === data;
};

StringReader.prototype.readData = function(size) {
    this.checkOffset(size);
    // this will work because the constructor applied the "& 0xff" mask.
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};
module.exports = StringReader;

}, {"../utils":32, "/DataReader":18}], 21: [function (require, module, exports) {
'use strict';
var ArrayReader = require('./ArrayReader');
var utils = require('./../utils');

function Uint8ArrayReader(data) {
    ArrayReader.call(this, data);
}

utils.inherits(Uint8ArrayReader, ArrayReader);
/**
 * @see DataReader.readData
 */
Uint8ArrayReader.prototype.readData = function (size) {
    this.checkOffset(size);
    if (size === 0) {
        // in IE10, when using subarray(idx, idx), we get the array [0x00] instead of [].
        return new Uint8Array(0);
    }
    var result = this.data.subarray(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};
module.exports = Uint8ArrayReader;

}, {"../utils":32, "/ArrayReader":17}], 22: [function (require, module, exports) {
'use strict';

var utils = require('./../utils');
var support = require('./../support');
var ArrayReader = require('./ArrayReader');
var StringReader = require('./StringReader');
var NodeBufferReader = require('./NodeBufferReader');
var Uint8ArrayReader = require('./Uint8ArrayReader');

/**
 * Create a reader adapted to the data.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data to read.
 * @return {DataReader} the data reader.
 */
module.exports = function (data) {
    var type = utils.getTypeOf(data);
    utils.checkSupport(type);
    if (type === "string" && !support.uint8array) {
        return new StringReader(data);
    }
    if (type === "nodebuffer") {
        var BufferReader = require('./BufferReader');
        return new BufferReader(data);
    }
    if (type === "arraybuffer") {
        var ArrayBufferReader = require('./ArrayBufferReader');
        return new ArrayBufferReader(data);
    }
    if (type === "nodebuffer") {
        var NodeBufferReader = require('./NodeBufferReader');
        return new NodeBufferReader(data);
    }
    if (type === "Uint8Array") {
        var Uint8ArrayReader = require('./Uint8ArrayReader');
        return new Uint8ArrayReader(data);
    }
    if (type === "ArrayBuffer") {
        var ArrayBufferReader = require('./ArrayBufferReader');
        return new ArrayBufferReader(data);
    }
    return new ArrayReader(data);
};
return new NodeBufferReader(data);
}
if (support.uint8array) {
  return new Uint8ArrayReader(utils.transformTo("uint8array", data));
}
return new ArrayReader(utils.transformTo("array", data));
};

exports.LOCAL_FILE_HEADER = "PK\x03\x04";
exports.CENTRAL_FILE_HEADER = "PK\x01\x02";
exports.CENTRAL_DIRECTORY_END = "PK\x05\x06";
exports.ZIP64_CENTRAL_DIRECTORY_LOCATOR = "PK\x06\x07";
exports.ZIP64_CENTRAL_DIRECTORY_END = "PK\x06\x06";
exports.DATA_DESCRIPTOR = "PK\x07\x08";

var GenericWorker = require('./GenericWorker');
var utils = require('./utils');

/**
 * A worker which convert chunks to a specified type.
 * @constructor
 * @param {String} destType the destination type.
 */
function ConvertWorker(destType) {
  GenericWorker.call(this, "ConvertWorker to " + destType);
  this.destType = destType;
}
utils.inherits(ConvertWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
ConvertWorker.prototype.processChunk = function (chunk) {
  this.push(
    data : utils.transformTo(this.destType, chunk.data),
    meta : chunk.meta
  );
};
module.exports = ConvertWorker;


var GenericWorker = require('./GenericWorker');
var crc32 = require('./crc32');
var utils = require('./utils');

/**
* A worker which calculate the crc32 of the data flowing through.
* @constructor
*/
function Crc32Probe() {
  GenericWorker.call(this, "Crc32Probe");
  this.withStreamInfo("crc32", 0);
}
utils.inherits(Crc32Probe, GenericWorker);

/**
* @see GenericWorker.processChunk
*/
Crc32Probe.prototype.processChunk = function (chunk) {
  this.streamInfo.crc32 = crc32(chunk.data, this.streamInfo.crc32 || 0);
  this.push(chunk);
};
module.exports = Crc32Probe;

var GenericWorker = require('./GenericWorker');
var crc32 = require('./crc32');
var utils = require('./utils');

/**
* A worker which calculate the total length of the data flowing through.
* @constructor
* @param {String} propName the name used to expose the length
*/
function DataLengthProbe(propName) {
  GenericWorker.call(this, "DataLengthProbe for " + propName);
  this.propName = propName;
  this.withStreamInfo(propName, 0);
}
utils.inherits(DataLengthProbe, GenericWorker);

/**
* @see GenericWorker.processChunk
*/
DataLengthProbe.prototype.processChunk = function (chunk) {
  var length = this.streamInfo[this.propName] || 0;
  this.push(chunk);
};
this.streamInfo[this.propName] = length + chunk.data.length;
}
GenericWorker.prototype.processChunk.call(this, chunk);
}
module.exports = DataLengthProbe;

},{"./utils":32,"./GenericWorker":28}],27:[function(require,module,exports){
'use strict';
var utils = require('./../utils');
var GenericWorker = require('./GenericWorker');

// the size of the generated chunks
// TODO expose this as a public variable
var DEFAULT_BLOCK_SIZE = 16 * 1024;

/**
 * A worker that reads a content and emits chunks.
 * @constructor
 * @param {Promise} dataP the promise of the data to split
 */
function DataWorker(dataP) {
  GenericWorker.call(this, "DataWorker");
  var self = this;
  this.dataIsReady = false;
  this.index = 0;
  this.max = 0;
  this.data = null;
  this.type = "";

  this._tickScheduled = false;

  dataP.then(function (data) {
    self.dataIsReady = true;
    self.data = data;
    self.max = data && data.length || 0;
    self.type = utils.getTypeOf(data);
    if(!self.isPaused) {
      self._tickAndRepeat();
    }
  }, function (e) {
    self.error(e);
  });
}

utils.inherits(DataWorker, GenericWorker);
DataWorker.prototype.cleanUp = function () {
    GenericWorker.prototype.cleanUp.call(this);
    this.data = null;
};

DataWorker.prototype.resume = function () {
    if (!GenericWorker.prototype.resume.call(this)) {
        return false;
    }
    if (!this._tickScheduled && this.dataIsReady) {
        this._tickScheduled = true;
        utils.delay(this._tickAndRepeat, [], this);
    }
    return true;
};

DataWorker.prototype._tickAndRepeat = function () {
    this._tickScheduled = false;
    if (this.isPaused || this.isFinished) {
        return;
    }
    this._tick();
    if (!this.isFinished) {
        utils.delay(this._tickAndRepeat, [], this);
        this._tickScheduled = true;
    }
};

DataWorker.prototype._tick = function () {
    if (this.isPaused || this.isFinished) {
        return false;
    }
    var size = DEFAULT_BLOCK_SIZE;
    }
```
var data = null, nextIndex = Math.min(this.max, this.index + size);
if (this.index >= this.max) {
    // EOF
    return this.end();
} else {
    switch(this.type) {
    case "string":
        data = this.data.substring(this.index, nextIndex);
        break;
    case "uint8array":
        data = this.data.subarray(this.index, nextIndex);
        break;
    case "array":
    case "nodebuffer":
        data = this.data.slice(this.index, nextIndex);
        break;
    }
    this.index = nextIndex;
    return this.push({
      data : data,
      meta : {
          percent : this.max ? this.index / this.max * 100 : 0
      }
    });
}
}

module.exports = DataWorker;
```
this.name = name || "default";
// an object containing metadata about the workers chain
this.streamInfo = {};
// an error which happened when the worker was paused
this.generatedError = null;
// an object containing metadata to be merged by this worker into the general metadata
this.extraStreamInfo = {};
// true if the stream is paused (and should not do anything), false otherwise
this.isPaused = true;
// true if the stream is finished (and should not do anything), false otherwise
this.isFinished = false;
// true if the stream is locked to prevent further structure updates (pipe), false otherwise
this.isLocked = false;
// the event listeners
this._listeners = {
  'data':[],
  'end':[],
  'error':[]
};
// the previous worker, if any
this.previous = null;

GenericWorker.prototype = {
  /**
   * Push a chunk to the next workers.
   * @param {Object} chunk the chunk to push
   */
  push : function (chunk) {
    this.emit("data", chunk);
  },
  /**
   * End the stream.
   * @return {Boolean} true if this call ended the worker, false otherwise.
   */
  end : function () {
    if (this.isFinished) {
      return false;
    }
    this.flush();
    try {
      this.emit("end");
      this.cleanUp();
      this.isFinished = true;
    } catch (e) {
      this.emit("error", e);
    }
  }
}
return true;
}

/**
 * End the stream with an error.
 * @param {Error} e the error which caused the premature end.
 * @return {Boolean} true if this call ended the worker with an error, false otherwise.
 */
error : function (e) {
    if (this.isFinished) {
        return false;
    }

    if(this.isPaused) {
        this.generatedError = e;
    } else {
        this.isFinished = true;
    }

    this.emit("error", e);

    // in the workers chain exploded in the middle of the chain,
    // the error event will go downward but we also need to notify
    // workers upward that there has been an error.
    if(this.previous) {
        this.previous.error(e);
    }

    this.cleanUp();
}

return true;

/**
 * Add a callback on an event.
 * @param {String} name the name of the event (data, end, error)
 * @param {Function} listener the function to call when the event is triggered
 * @return {GenericWorker} the current object for chainability
 */
on : function (name, listener) {
    this._listeners[name].push(listener);
    return this;
}

/**
 * Clean any references when a worker is ending.
 */
cleanUp : function () {
    this.streamInfo = this.generatedError = this.extraStreamInfo = null;
    this._listeners = [];
}

/**
* Trigger an event. This will call registered callback with the provided arg.
* @param {String} name the name of the event (data, end, error)
* @param {Object} arg the argument to call the callback with.
*/
emit : function (name, arg) {
    if (this._listeners[name]) {
        for(var i = 0; i < this._listeners[name].length; i++) {
            this._listeners[name][i].call(this, arg);
        }
    }
},
/**
* Chain a worker with an other.
* @param {Worker} next the worker receiving events from the current one.
* @return {worker} the next worker for chainability
*/
pipe : function (next) {
    return next.registerPrevious(this);
},
/**
* Same as `pipe` in the other direction.
* Using an API with `pipe(next)` is very easy.
* Implementing the API with the point of view of the next one registering
* a source is easier, see the ZipFileWorker.
* @param {Worker} previous the previous worker, sending events to this one
* @return {Worker} the current worker for chainability
*/
registerPrevious : function (previous) {
    if (this.isLocked) {
        throw new Error("The stream "+ this + ": has already been used.");
    }

    // sharing the streamInfo...
    this.streamInfo = previous.streamInfo;
    // ... and adding our own bits
    this.mergeStreamInfo();
    this.previous = previous;
    var self = this;
    previous.on('data', function (chunk) {
        self.processChunk(chunk);
    });
    previous.on('end', function () {
        self.end();
    });
    previous.on('error', function (e) {
        self.error(e);
    });
    return this;
pause : function () {
    if(this.isPaused || this.isFinished) {
        return false;
    }
    this.isPaused = true;

    if(this.previous) {
        this.previous.pause();
    }
    return true;
},

resume : function () {
    if(!this.isPaused || this.isFinished) {
        return false;
    }
    this.isPaused = false;

    // if true, the worker tried to resume but failed
    var withError = false;
    if(this.generatedError) {
        this.error(this.generatedError);
        withError = true;
    }
    if(this.previous) {
        this.previous.resume();
    }

    return !withError;
},

flush : function () {}

processChunk : function(chunk) {
    this.push(chunk);
}
/**
 * Add a key/value to be added in the workers chain streamInfo once activated.
 * @param {String} key the key to use
 * @param {Object} value the associated value
 * @return {Worker} the current worker for chainability
 */
withStreamInfo : function (key, value) {
    this.extraStreamInfo[key] = value;
    this.mergeStreamInfo();
    return this;
},
/**
 * Merge this worker's streamInfo into the chain's streamInfo.
 */
mergeStreamInfo : function () {
    for(var key in this.extraStreamInfo) {
        if (!this.extraStreamInfo.hasOwnProperty(key)) {
            continue;
        }
        this.streamInfo[key] = this.extraStreamInfo[key];
    }
},
/**
 * Lock the stream to prevent further updates on the workers chain.
 * After calling this method, all calls to pipe will fail.
 */
lock: function () {
    if (this.isLocked) {
        throw new Error("The stream " + this + " has already been used.");
    }
    this.isLocked = true;
    if (this.previous) {
        this.previous.lock();
    }
},
/**
 * Pretty print the workers chain.
 */
toString : function () {
    var me = "Worker " + this.name;
    if (this.previous) {
        return this.previous + " -> " + me;
    } else {
        return me;
module.exports = GenericWorker;

function require(module, exports) {
  'use strict';

  var utils = require('./../utils/');
  var ConvertWorker = require('./../ConvertWorker/');
  var GenericWorker = require('./GenericWorker/');
  var base64 = require('../base64');
  var support = require('./../support');
  var external = require('./../external');

  var NodejsStreamOutputAdapter = null;
  if (support.nodestream) {
    try {
      NodejsStreamOutputAdapter = require('../nodejs/NodejsStreamOutputAdapter');
    } catch(e) {}
  }

  /**
   * Apply the final transformation of the data. If the user wants a Blob for
   * example, it's easier to work with an Uint8Array and finally do the
   * ArrayBuffer/Blob conversion.
   * @param {String} type the name of the final type
   * @param {String|Uint8Array|Buffer} content the content to transform
   * @param {String} mimeType the mime type of the content, if applicable.
   * @return {String|Uint8Array|ArrayBuffer|Buffer|Blob} the content in the right format.
   */
  function transformZipOutput(type, content, mimeType) {
    switch(type) {
      case "blob":
        return utils.newBlob(utils.transformTo("arraybuffer", content), mimeType);
      case "base64":
        return base64.encode(content);
      default:
        return utils.transformTo(type, content);
    }
  }

  /**
   * Concatenate an array of data of the given type.
   * @param {String} type the type of the data in the given array.
   * @param {Array} dataArray the array containing the data chunks to concatenate
   * @return {String|Uint8Array|Buffer} the concatenated data
   */
  function concatArray(type, dataArray) {
    return dataArray.reduce((a, b) => utils.transformTo(type, a), null);
  }

  exports.transformTo = transformZipOutput;
  exports.concatArray = concatArray;
}
function concat (type, dataArray) {
    var i, index = 0, res = null, totalLength = 0;
    for(i = 0; i < dataArray.length; i++) {
        totalLength += dataArray[i].length;
    }
    switch(type) {
    case "string":
        return dataArray.join('');
    case "array":
        return Array.prototype.concat.apply([], dataArray);
    case "uint8array":
        res = new Uint8Array(totalLength);
        for(i = 0; i < dataArray.length; i++) {
            res.set(dataArray[i], index);
            index += dataArray[i].length;
        }
        return res;
    case "nodebuffer":
        return Buffer.concat(dataArray);
    default:
        throw new Error("concat : unsupported type '" + type + "'");
    }
}

/**
 * Listen a StreamHelper, accumulate its content and concatenate it into a
 * complete block.
 * @param {StreamHelper} helper the helper to use.
 * @param {Function} updateCallback a callback called on each update. Called
 * with one arg :
 * - the metadata linked to the update received.
 * @return Promise the promise for the accumulation.
 */
function accumulate(helper, updateCallback) {
    return new external.Promise(function (resolve, reject){
        var dataArray = [];
        var chunkType = helper._internalType,
            resultType = helper._outputType,
            mimeType = helper._mimeType;
        helper
            .on('data', function (data, meta) {
                dataArray.push(data);
                if(updateCallback) {
                    updateCallback(meta);
                }
            })
            .on('error', function (error) {
                reject(error);
            })
            .on('end', function () {
                resolve(dataArray);
            });
    })
}
```javascript
.on('error', function(err) {
    dataArray = [];
    reject(err);
})
.on('end', function (){
    try {
        var result = transformZipOutput(resultType, concat(chunkType, dataArray), mimeType);
        resolve(result);
    } catch (e) {
        reject(e);
    }
    dataArray = [];
});
.resume();
}

/**
 * An helper to easily use workers outside of JSZip.
 * @constructor
 * @param {Worker} worker the worker to wrap
 * @param {String} outputType the type of data expected by the use
 * @param {String} mimeType the mime type of the content, if applicable.
 */
function StreamHelper(worker, outputType, mimeType) {
    var internalType = outputType;
    switch(outputType) {
        case "blob":
            internalType = "uint8array";
            break;
        case "arraybuffer":
            internalType = "string";
            break;
    }
    try {
        // the type used internally
        this._internalType = internalType;
        // the type used to output results
        this._outputType = outputType;
        // the mime type
        this._mimeType = mimeType;
        utils.checkSupport(internalType);
        this._worker = worker.pipe(new ConvertWorker(internalType));
        // the last workers can be rewired without issues but we need to
        // prevent any updates on previous workers.
        worker.lock();
    }
```
catch(e) {
    this._worker = new GenericWorker("error");
    this._worker.error(e);
}
}

StreamHelper.prototype = {
    /**
     * Listen a StreamHelper, accumulate its content and concatenate it into a
     * complete block.
     * @param {Function} updateCb the update callback.
     * @return Promise the promise for the accumulation.
     */
    accumulate : function (updateCb) {
        return accumulate(this, updateCb);
    },
    /**
     * Add a listener on an event triggered on a stream.
     * @param {String} evt the name of the event
     * @param {Function} fn the listener
     * @return {StreamHelper} the current helper.
     */
    on : function (evt, fn) {
        var self = this;

        if(evt === "data") {
            this._worker.on(evt, function (chunk) {
                fn.call(self, chunk.data, chunk.meta);
            });
        } else {
            this._worker.on(evt, function () {
                utils.delay(fn, arguments, self);
            });
        }
        return this;
    },
    /**
     * Resume the flow of chunks.
     * @return {StreamHelper} the current helper.
     */
    resume : function () {
        utils.delay(this._worker.resume, [], this._worker);
        return this;
    },
    /**
     * Pause the flow of chunks.
     * @return {StreamHelper} the current helper.
     */
}
pause : function () {
    this._worker.pause();
    return this;
},
/**
 * Return a nodejs stream for this helper.
 * @param {Function} updateCb the update callback.
 * @return {NodejsStreamOutputAdapter} the nodejs stream.
 */
toNodejsStream : function (updateCb) {
    utils.checkSupport("nodestream");
    if (this._outputType !== "nodebuffer") {
        // an object stream containing blob/arraybuffer/uint8array/string
        // is strange and I don't know if it would be useful.
        // I you find this comment and have a good usecase, please open a
        // bug report !
        throw new Error(this._outputType + " is not supported by this method");
    }
    return new NodejsStreamOutputAdapter(this, {
        objectMode : this._outputType !== "nodebuffer"
    }, updateCb);
}
}
}
}
module.exports = StreamHelper;

'use strict';
exports.base64 = true;
exports.array = true;
exports.string = true;
exports.arraybuffer = typeof ArrayBuffer !== "undefined" && typeof Uint8Array !== "undefined";
exports.nodebuffer = typeof Buffer !== "undefined";
// contains true if JSZip can read/generate Uint8Array, false otherwise.
exports.uint8array = typeof Uint8Array !== "undefined";
if (typeof ArrayBuffer === "undefined") {
    exports.blob = false;
} else {
    var buffer = new ArrayBuffer(0);
    try {
        exports.blob = new Blob([buffer], {
            type: "application/zip"}面白
try {
    var builder = new Builder();
    builder.append(buffer);
    exports.blob = builder.getBlob('application/zip').size === 0;
}

try {
    exports.nodestream = !!require('readable-stream').Readable;
} catch(e) {
    exports.nodestream = false;
}

var _utf8len = new Array(256);
for (var i=0; i<256; i++) {
}

// Table with utf8 lengths (calculated by first byte of sequence)
// Note, that 5 & 6-byte values and some 4-byte values can not be represented in JS,
// because max possible codepoint is 0x10ffff
var _utf8len = new Array(256);
for (var i=0; i<256; i++) {
}

// convert string to array (typed, when possible)
var string2buf = function (str) {
    var buf, c, c2, m_pos, i, str_len = str.length, buf_len = 0;
    // count binary size
for (m_pos = 0; m_pos < str_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if (((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {  
        c2 = str.charCodeAt(m_pos+1);
        if (((c2 & 0xfc00) === 0xdc00) {  
            c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
            m_pos++;
        }
    }
    buf_len += c < 0x80 ? 1 : c < 0x800 ? 2 : c < 0x10000 ? 3 : 4;
}

// allocate buffer
if (support.uint8array) {  
    buf = new Uint8Array(buf_len);
} else {
    buf = new Array(buf_len);
}

// convert
for (i=0, m_pos = 0; i < buf_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if (((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {  
        c2 = str.charCodeAt(m_pos+1);
        if (((c2 & 0xfc00) === 0xdc00) {  
            c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
            m_pos++;
        }
    }
    if (c < 0x80) {  
        /* one byte */
        buf[i++] = c;
    } else if (c < 0x800) {  
        /* two bytes */
        buf[i++] = 0xC0 | (c >>> 6);
        buf[i++] = 0x80 | (c & 0x3f);
    } else if (c < 0x10000) {  
        /* three bytes */
        buf[i++] = 0xE0 | (c >>> 12);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    } else {  
        /* four bytes */
        buf[i++] = 0xf0 | (c >>> 18);
        buf[i++] = 0x80 | (c >>> 12 & 0x3f);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    }
// Calculate max possible position in utf8 buffer, 
// that will not break sequence. If that's not possible 
// - (very small limits) return max size as is. 
// 
// buf[] - utf8 bytes array 
// max   - length limit (mandatory); 
// var utf8border = function(buf, max) {
//     var pos;

max = max || buf.length;
if (max > buf.length) { max = buf.length; }

// go back from last position, until start of sequence found
pos = max-1;
while (pos >= 0 && (buf[pos] & 0xC0) === 0x80) { pos--; }

// Fuckup - very small and broken sequence, 
// return max, because we should return something anyway.
if (pos < 0) { return max; }

// If we came to start of buffer - that means buffer is too small, 
// return max too.
if (pos === 0) { return max; }

return (pos + _utf8len[buf[pos]] > max) ? pos : max;

};

// convert array to string
var buf2string = function (buf) {
    var str, i, out, c, c_len;
    var len = buf.length;

    // Reserve max possible length (2 words per char)
    // NB: by unknown reasons, Array is significantly faster for
    //     String.fromCharCode.apply than Uint16Array.
    var utf16buf = new Array(len*2);

    for (out=0, i=0; i<len;) {
        c = buf[i++];
        // quick process ascii
        if (c < 0x80) { utf16buf[out++] = c; continue; }

        c_len = _utf8len[c];
// skip 5 & 6 byte codes
if (c_len > 4) { utf16buf[out++] = 0xfffd; i += c_len-1; continue; }

// apply mask on first byte
c &=(c_len === 2 ? 0x1f : c_len === 3 ? 0x0f : 0x07);

// join the rest
while (c_len > 1 && i < len) {
  c = (c << 6) | (buf[i++] & 0x3f);
  c_len--;
}

// terminated by end of string?
if (c_len > 1) { utf16buf[out++] = 0xfffd; continue; }

if (c < 0x10000) {
  utf16buf[out++] = c;
} else {
  c -= 0x10000;
  utf16buf[out++] = 0xd800 | ((c >> 10) & 0x3ff);
  utf16buf[out++] = 0xdc00 | (c & 0x3ff);
}

// shrinkBuf(utf16buf, out)
if (utf16buf.length !== out) {
  if(utf16buf.subarray) { utf16buf = utf16buf.subarray(0, out); }
  else { utf16buf.length = out; }
}

// return String.fromCharCode.apply(null, utf16buf);
return utils.applyFromCharCode(utf16buf);

// That's all for the pako functions.

/**
 * Transform a javascript string into an array (typed if possible) of bytes,
 * UTF-8 encoded.
 * @param {String} str the string to encode
 * @return {Array|Uint8Array|Buffer} the UTF-8 encoded string.
 */
exports.utf8encode = function utf8encode(str) {
  if (support.nodebuffer) {
    return
  }
return nodejsUtils.newBufferFrom(str, "utf-8");
}

return string2buf(str);
;

/**
 * Transform a bytes array (or a representation) representing an UTF-8 encoded string into a javascript string.
 * @param {Array|Uint8Array|Buffer} buf the data de decode
 * @return {String} the decoded string.
 */
exports.utf8decode = function utf8decode(buf) {
  if (support.nodebuffer) {
    return utils.transformTo("nodebuffer", buf).toString("utf-8");
  }
  buf = utils.transformTo(support.uint8array ? "uint8array" : "array", buf);
  return buf2string(buf);
};

/**
 * A worker to decode utf8 encoded binary chunks into string chunks.
 * @constructor
 */
function Utf8DecodeWorker() {
  GenericWorker.call(this, "utf-8 decode");
  // the last bytes if a chunk didn't end with a complete codepoint.
  this.leftOver = null;
}
utils.inherits(Utf8DecodeWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
Utf8DecodeWorker.prototype.processChunk = function (chunk) {
  var data = utils.transformTo(support.uint8array ? "uint8array" : "array", chunk.data);

  // 1st step, re-use what's left of the previous chunk
  if (this.leftOver && this.leftOver.length) {
    if(support.uint8array) {
      var previousData = data;
      data = new Uint8Array(previousData.length + this.leftOver.length);
      data.set(this.leftOver, 0);
      data.set(previousData, this.leftOver.length);
      // 
    }
    return data;
  }
  // 2nd step, deal with what's new in this chunk
  if (support.uint8array) {
    var previousData = data;
    data = new Uint8Array(previousData.length + this.leftOver.length);
    data.set(this.leftOver, 0);
    data.set(previousData, this.leftOver.length);
  } else {
    var previousData = data;
    data = new Buffer(previousData.length + this.leftOver.length);
    data.copy(this.leftOver, 0);
    data.copy(previousData, this.leftOver.length);
  }
  return utils.transformTo("utf-8", data).toString("utf-8");
}

/**
 * Transform a bytes array (or a representation) representing an UTF-8 encoded string into a javascript string.
 * @param {Array|Uint8Array|Buffer} buf the data de decode
 * @return {String} the decoded string.
 */
exports.utf8decode = function utf8decode(buf) {
  if (support.nodebuffer) {
    return utils.transformTo("nodebuffer", buf).toString("utf-8");
  }
  buf = utils.transformTo(support.uint8array ? "uint8array" : "array", buf);
  return buf2string(buf);
};
else {
  data = this.leftOver.concat(data);
}
this.leftOver = null;
}

var nextBoundary = utf8border(data);
var usableData = data;
if (nextBoundary !== data.length) {
  if (support.uint8array) {
    usableData = data.subarray(0, nextBoundary);
    this.leftOver = data.subarray(nextBoundary, data.length);
  } else {
    usableData = data.slice(0, nextBoundary);
    this.leftOver = data.slice(nextBoundary, data.length);
  }
}

this.push({
  data : exports.utf8decode(usableData),
  meta : chunk.meta
});
};

/**
 * @see GenericWorker.flush
 */
Utf8DecodeWorker.prototype.flush = function () {
  if(this.leftOver && this.leftOver.length) {
    this.push({
      data : exports.utf8decode(this.leftOver),
      meta : {}
    });
    this.leftOver = null;
  }
};
exports.Utf8DecodeWorker = Utf8DecodeWorker;

/**
* A worker to endcode string chunks into utf8 encoded binary chunks.
* @constructor
*/
function Utf8EncodeWorker() {
  GenericWorker.call(this, "utf-8 encode");
}
utils.inherits(Utf8EncodeWorker, GenericWorker);

/**
Utf8EncodeWorker.prototype.processChunk = function (chunk) {
    this.push(
        {data : exports.utf8encode(chunk.data),
         meta : chunk.meta
        });
};
exports.Utf8EncodeWorker = Utf8EncodeWorker;

var support = require('./support');
var base64 = require('./base64');
var nodejsUtils = require('./nodejsUtils');
var setImmediate = require('set-immediate-shim');
var external = require('external');

/**
 * Convert a string that pass as a "binary string": it should represent a byte
 * array but may have > 255 char codes. Be sure to take only the first byte
 * and returns the byte array.
 * 
 * @param {String} str the string to transform.
 * @return {Array|Uint8Array} the string in a binary format.
 * 
 * Convert a string that pass as a "binary string": it should represent a byte
 * array but may have > 255 char codes. Be sure to take only the first byte
 * and returns the byte array.
 * 
 * @param {String} str the string to transform.
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 * 
 * Convert a string that pass as a "binary string": it should represent a byte
 * array but may have > 255 char codes. Be sure to take only the first byte
 * and returns the byte array.
 * 
 * @param {String} str the string to transform.
 * @return {Array|Uint8Array} the string in a binary format.
 */
function string2binary(str) {
    var result = null;
    if (support.uint8array) {
        result = new Uint8Array(str.length);
    } else {
        result = new Array(str.length);
    }
    return stringToArrayLike(str, result);
}

/**
 * Create a new blob with the given content and the given type.
 * @param {ArrayBuffer} part the content to put in the blob. DO NOT use
 * an Uint8Array because the stock browser of android 4 won't accept it (it
 * will be silently converted to a string. "[object Uint8Array]").
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 * @param {ArrayBuffer} part the content to put in the blob. DO NOT use
 * an Uint8Array because the stock browser of android 4 won't accept it (it
 * will be silently converted to a string. "[object Uint8Array]").
 */
function createBlob(part, type) {
    var blob = new Blob([part], {type: type});
    return blob;
}

/**
 * Use only ONE part to build the blob to avoid a memory leak in IE11 / Edge:
 * when a large amount of Array is used to create the Blob, the amount of
 * memory consumed is nearly 100 times the original data amount.
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 * 
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 * when a large amount of Array is used to create the Blob, the amount of
 * memory consumed is nearly 100 times the original data amount.
 */
* @param {String} type the mime type of the blob.
* @return {Blob} the created blob.
*/
exports.newBlob = function(part, type) {
    exports.checkSupport("blob");

    try {
        // Blob constructor
        return new Blob([part], {
            type: type
        });
    } catch (e) {

        try {
            // deprecated, browser only, old way
            var builder = new Builder();
            builder.append(part);
            return builder.getBlob(type);
        } catch (e) {
            // well, fuck ?!
            throw new Error("Bug : can't construct the Blob.");
        }
    }
};

/**
 * The identity function.
 * @param {Object} input the input.
 * @return {Object} the same input.
 */
function identity(input) {
    return input;
}

/**
 * Fill in an array with a string.
 * @param {String} str the string to use.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to fill in (will be mutated).
 * @return {Array|ArrayBuffer|Uint8Array|Buffer} the updated array.
 */
function stringToArrayLike(str, array) {
    for (var i = 0; i < str.length; ++i) {
        array[i] = str.charCodeAt(i) & 0xFF;
    }
}
return array;
}

/**
 * An helper for the function arrayLikeToString.
 * This contains static information and functions that
 * can be optimized by the browser JIT compiler.
 */
var arrayToStringHelper = {
  /**
   * Transform an array of int into a string, chunk by chunk.
   * See the performances notes on arrayLikeToString.
   * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
   * @param {String} type the type of the array.
   * @param {Integer} chunk the chunk size.
   * @return {String} the resulting string.
   * @throws Error if the chunk is too big for the stack.
   */
  stringifyByChunk: function(array, type, chunk) {
    var result = [], k = 0, len = array.length;
    // shortcut
    if (len <= chunk) {
      return String.fromCharCode.apply(null, array);
    }
    while (k < len) {
      if (type === "array" || type === "nodebuffer") {
        result.push(String.fromCharCode.apply(null, array.slice(k, Math.min(k + chunk, len))));
      } else {
        result.push(String.fromCharCode.apply(null, array.subarray(k, Math.min(k + chunk, len))));
      }
      k += chunk;
    }
    return result.join(" ");
  },
  /**
   * Call String.fromCharCode on every item in the array.
   * This is the naive implementation, which generate A LOT of intermediate string.
   * This should be used when everything else fail.
   * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
   * @return {String} the result.
   */
  stringifyByChar: function(array) {
    var resultStr = "";
    for (var i = 0; i < array.length; i++) {
      resultStr += String.fromCharCode(array[i]);
    }
  }
};
return resultStr;
},
applyCanBeUsed : {
/**
 * true if the browser accepts to use String.fromCharCode on Uint8Array
 */
uint8array : (function () {
    try {
        return support.uint8array && String.fromCharCode.apply(null, new Uint8Array(1)).length === 1;
    } catch (e) {
        return false;
    }
})(),
/**
 * true if the browser accepts to use String.fromCharCode on nodejs Buffer.
 */
nodebuffer : (function () {
    try {
        return support.nodebuffer && String.fromCharCode.apply(null, nodejsUtils.allocBuffer(1)).length === 1;
    } catch (e) {
        return false;
    }
})()
},
/**
 * Transform an array-like object to a string.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
 * @return {String} the result.
 */
function arrayLikeToString(array) {
    // Performances notes :
    // -------------------
    // String.fromCharCode.apply(null, array) is the fastest, see
    // see http://jsperf.com/converting-a-uint8array-to-a-string/2
    // but the stack is limited (and we can get huge arrays !).
    // result += String.fromCharCode(array[i]); generate too many strings !
    // This code is inspired by http://jsperf.com/arraybuffer-to-string-apply-performance/2
    // TODO : we now have workers that split the work. Do we still need that ?
    var chunk = 65536,
    type = exports.getTypeOf(array),
    canUseApply = true;
    if (type === "uint8array") {
        canUseApply = arrayToStringHelper.applyCanBeUsed.uint8array;
    } else if (type === "nodebuffer") {

canUseApply = arrayToStringHelper.applyCanBeUsed.nodebuffer;

if (canUseApply) {
    while (chunk > 1) {
        try {
            return arrayToStringHelper.stringifyByChunk(array, type, chunk);
        } catch (e) {
            chunk = Math.floor(chunk / 2);
        }
    }
}

// no apply or chunk error : slow and painful algorithm
// default browser on android 4.*
return arrayToStringHelper.stringifyByChar(array);

exports.applyFromCharCode = arrayLikeToString;

/**
 * Copy the data from an array-like to an other array-like.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} arrayFrom the origin array.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} arrayTo the destination array which will be mutated.
 * @return {Array|ArrayBuffer|Uint8Array|Buffer} the updated destination array.
 */
function arrayLikeToArrayLike(arrayFrom, arrayTo) {
    for (var i = 0; i < arrayFrom.length; i++) {
        arrayTo[i] = arrayFrom[i];
    }
    return arrayTo;
}

// a matrix containing functions to transform everything into everything.
var transform = {};

// string to ?
transform["string"] = {
    "string": identity,
    "array": function(input) {
        return stringToArrayLike(input, new Array(input.length));
    },
    "arraybuffer": function(input) {
        return transform["string"]]["uint8array"](input).buffer;
    },
    "uint8array": function(input) {
        return stringToArrayLike(input, new Uint8Array(input.length));
    }
}
"nodebuffer": function(input) {
    return stringToArrayLike(input, nodejsUtils.allocBuffer(input.length));
}
];

// array to ?
transform["array"] = {
    "string": arrayLikeToString,
    "array": identity,
    "arraybuffer": function(input) {
        return (new Uint8Array(input)).buffer;
    },
    "uint8array": function(input) {
        return new Uint8Array(input);
    },
    "nodebuffer": function(input) {
        return nodejsUtils.newBufferFrom(input);
    }
};

// arraybuffer to ?
transform["arraybuffer"] = {
    "string": function(input) {
        return arrayLikeToString(new Uint8Array(input));
    },
    "array": function(input) {
        return arrayLikeToArrayLike(new Uint8Array(input), new Array(input.byteLength));
    },
    "arraybuffer": identity,
    "uint8array": function(input) {
        return new Uint8Array(input);
    },
    "nodebuffer": function(input) {
        return nodejsUtils.newBufferFrom(new Uint8Array(input));
    }
};

// uint8array to ?
transform["uint8array"] = {
    "string": arrayLikeToString,
    "array": function(input) {
        return arrayLikeToArrayLike(input, new Array(input.length));
    },
    "arraybuffer": function(input) {
        return input.buffer;
    },
    "uint8array": identity,
"nodebuffer": function(input) {
    return nodejsUtils.newBufferFrom(input);
}

// nodebuffer to ?
transform["nodebuffer"] = {
  "string": arrayLikeToString,
  "array": function(input) {
      return arrayLikeToArrayLike(input, new Array(input.length));
  },
  "arraybuffer": function(input) {
      return transform["nodebuffer"]["uint8array"](input).buffer;
  },
  "uint8array": function(input) {
      return arrayLikeToArrayLike(input, new Uint8Array(input.length));
  },
  "nodebuffer": identity
};

/**
 * Transform an input into any type.
 * The supported output type are : string, array, uint8array, arraybuffer, nodebuffer.
 * If no output type is specified, the unmodified input will be returned.
 * @param {String} outputType the output type.
 * @param {String|Array|ArrayBuffer|Uint8Array|Buffer} input the input to convert.
 * @throws {Error} an Error if the browser doesn't support the requested output type.
 */
exports.transformTo = function(outputType, input) {
  if (!input) {
    // undefined, null, etc
    // an empty string won't harm.
    input = "";
  }
  if (!outputType) {
    return input;
  }
  exports.checkSupport(outputType);
  var inputType = exports.getTypeOf(input);
  var result = transform[inputType][outputType](input);
  return result;
};

/**
 * Return the type of the input.
 * The type will be in a format valid for JSZip.utils.transformTo : string, array, uint8array, arraybuffer.
 * @param {Object} input the input to identify.
 * @return {String} the (lowercase) type of the input.
 */
exports.getTypeOf = function(input) {
    if (typeof input === "string") {
        return "string";
    }
    if (Object.prototype.toString.call(input) === "[object Array]") {
        return "array";
    }
    if (support.nodebuffer && nodejsUtils.isBuffer(input)) {
        return "nodebuffer";
    }
    if (support.uint8array && input instanceof Uint8Array) {
        return "uint8array";
    }
    if (support.arraybuffer && input instanceof ArrayBuffer) {
        return "arraybuffer";
    }
};

/**
 * Throw an exception if the type is not supported.
 * @param {String} type the type to check.
 * @throws {Error} an Error if the browser doesn't support the requested type.
 */
exports.checkSupport = function(type) {
    var supported = support[type.toLowerCase()];
    if (!supported) {
        throw new Error(type + " is not supported by this platform");
    }
};

exports.MAX_VALUE_16BITS = 65535;
exports.MAX_VALUE_32BITS = -1; // well, "\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF" is parsed as -1

/**
 * Prettify a string read as binary.
 * @param {string} str the string to prettify.
 * @return {string} a pretty string.
 */
exports.pretty = function(str) {
    var res = ",
    code, i;
    for (i = 0; i < (str || "").length; i++) {
        code = str.charCodeAt(i);
        res += \"\x" + (code < 16 ? "0" : ") + code.toString(16).toUpperCase();
    }
    return res;
};
/**
 * Defer the call of a function.
 * @param {Function} callback the function to call asynchronously.
 * @param {Array} args the arguments to give to the callback.
 */
exports.delay = function(callback, args, self) {
  setImmediate(function () {
    callback.apply(self || null, args || []);
  });
};

/**
 * Extends a prototype with an other, without calling a constructor with
 * side effects. Inspired by nodejs `utils.inherits`
 * @param {Function} ctor the constructor to augment
 * @param {Function} superCtor the parent constructor to use
 */
exports.inherits = function (ctor, superCtor) {
  var Obj = function() {
  }
  Obj.prototype = superCtor.prototype;
  ctor.prototype = new Obj();
};

/**
 * Merge the objects passed as parameters into a new one.
 * @private
 * @param {...Object} var_args All objects to merge.
 * @return {Object} a new object with the data of the others.
 */
exports.extend = function() {
  var result = {}, i, attr;
  for (i = 0; i < arguments.length; i++) { // arguments is not enumerable in some browsers
    for (attr in arguments[i]) {
      if (arguments[i].hasOwnProperty(attr) && typeof result[attr] === "undefined") {
        result[attr] = arguments[i][attr];
      }
    }
  }
  return result;
};

/**
 * Transform arbitrary content into a Promise.
 * @param {String} name a name for the content being processed.
 * @param {Object} inputData the content to process.
 * @param {Boolean} isBinary true if the content is not an unicode string
 * @param {Boolean} isOptimizedBinaryString true if the string content only has one byte per character.
 */
exports.prepareContent = function(name, inputData, isBinary, isOptimizedBinaryString, isBase64) {

  // if inputData is already a promise, this flatten it.
  var promise = external.Promise.resolve(inputData).then(function(data) {

    var isBlob = support.blob && (data instanceof Blob || ['[object File]', '[object Blob]').indexOf(Object.prototype.toString.call(data)) !== -1);

    if (isBlob && typeof FileReader !== "undefined") {
      return new external.Promise(function (resolve, reject) {
        var reader = new FileReader();

        reader.onload = function(e) {
          resolve(e.target.result);
        };
        reader.onerror = function(e) {
          reject(e.target.error);
        };
        reader.readAsArrayBuffer(data);
      });
    } else {
      return data;
    }

  });

  return promise.then(function(data) {

    var dataType = exports.getTypeOf(data);

    if (!dataType) {
      return external.Promise.reject(new Error("Can't read the data of '" + name + ". Is it " +
        "in a supported JavaScript type (String, Blob, ArrayBuffer, etc) ?")
      );
    }

    // special case : it's way easier to work with Uint8Array than with ArrayBuffer

    if (dataType === "arraybuffer") {
      data = exports.transformTo("uint8array", data);
    } else if (dataType === "string") {
      if (isBase64) {
        data = base64.decode(data);
      } else if (isBinary) {
        // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
        if (isOptimizedBinaryString !== true) {
          // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
          if (isOptimizedBinaryString !== true) {

```
```
// this is a string, not in a base64 format.
// Be sure that this is a correct "binary string"
data = string2binary(data);

return data;

});

},
{"./base64":1,"./external":6,"./nodejsUtils":14,"./support":30,"set-immediate-shim":54}],33:[function(require,module,exports){

'use strict';

var readerFor = require('./reader/readerFor');
var utils = require('./utils');
var sig = require('./signature');
var ZipEntry = require('./zipEntry');
var utf8 = require('./utf8');
var support = require('./support');

// class ZipEntries {
/**
 * All the entries in the zip file.
 * @constructor
 * @param {Object} loadOptions Options for loading the stream.
 */

function ZipEntries(loadOptions) {
    this.files = [];
    this.loadOptions = loadOptions;
}

ZipEntries.prototype = {

    /**
     * Check that the reader is on the specified signature.
     * @param {string} expectedSignature the expected signature.
     * @throws {Error} if it is an other signature.
     */

    checkSignature: function(expectedSignature) {
        if (!this.reader.readAndCheckSignature(expectedSignature)) {
            this.reader.index -= 4;
            var signature = this.reader.readString(4);
            throw new Error("Corrupted zip or bug: unexpected signature "+"(" + utils.pretty(signature) + ", expected "+utils.pretty(expectedSignature) + ")");
        }
    },

    /**
     * Check if the given signature is at the given index.
     * @param {number} askedIndex the index to check.
     * @param {string} expectedSignature the signature to expect.
     * @return {boolean} true if the signature is here, false otherwise.
     */

    checkSignatureAt: function(askedIndex, expectedSignature) {
        var signature = this.reader.readString(4);
        this.reader.index += 4;
        if (signature !== expectedSignature) {
            throw new Error("Corrupted zip or bug: unexpected signature "+"(" + utils.pretty(signature) + ", expected "+utils.pretty(expectedSignature) + ")");
        }
    }

};
```javascript
/*
* isSignature: function(askedIndex, expectedSignature) {
*   var currentIndex = this.reader.index;
*   this.reader.setIndex(askedIndex);
*   var signature = this.reader.readString(4);
*   var result = signature === expectedSignature;
*   this.reader.setIndex(currentIndex);
*   return result;
* },
/**
* Read the end of the central directory.
*/
readBlockEndOfCentral: function() {
  this.diskNumber = this.reader.readInt(2);
  this.diskWithCentralDirStart = this.reader.readInt(2);
  this.centralDirRecordsOnThisDisk = this.reader.readInt(2);
  this.centralDirRecords = this.reader.readInt(2);
  this.centralDirSize = this.reader.readInt(4);
  this.centralDirOffset = this.reader.readInt(4);

  this.zipCommentLength = this.reader.readInt(2);
  // warning : the encoding depends of the system locale
  // On a linux machine with LANG=en_US.utf8, this field is utf8 encoded.
  // On a windows machine, this field is encoded with the localized windows code page.
  var zipComment = this.reader.readData(this.zipCommentLength);
  var decodeParamType = support.uint8array ? "uint8array" : "array";
  // To get consistent behavior with the generation part, we will assume that
  // this is utf8 encoded unless specified otherwise.
  var decodeContent = utils.transformTo(decodeParamType, zipComment);
  this.zipComment = this.loadOptions.decodeFileName(decodeContent);
},
/**
* Read the end of the Zip 64 central directory.
* Not merged with the method readEndOfCentral :
* The end of central can coexist with its Zip64 brother,
* I don't want to read the wrong number of bytes !
*/
readBlockZip64EndOfCentral: function() {
  this.zip64EndOfCentralSize = this.reader.readInt(8);
  this.reader.skip(4);
  // this.versionMadeBy = this.reader.readString(2);
  // this.versionNeeded = this.reader.readInt(2);
  this.diskNumber = this.reader.readInt(4);
  this.diskWithCentralDirStart = this.reader.readInt(4);
  this.centralDirRecordsOnThisDisk = this.reader.readInt(8);
  this.centralDirRecords = this.reader.readInt(8);
  this.centralDirSize = this.reader.readInt(8);
  this.centralDirOffset = this.reader.readInt(8);
```
var extraDataSize = this.zip64EndOfCentralSize - 44,
index = 0,
extraFieldId,
extraFieldLength,
extraFieldValue;
while (index < extraDataSize) {
    extraFieldId = this.reader.readInt(2);
extraFieldLength = this.reader.readInt(4);
extraFieldValue = this.reader.readData(extraFieldLength);
this.zip64ExtensibleData[extraFieldId] = {
    id: extraFieldId,
    length: extraFieldLength,
    value: extraFieldValue
};
}

/**
 * Read the end of the Zip 64 central directory locator.
 */
readBlockZip64EndOfCentralLocator: function() {
    this.diskWithZip64CentralDirStart = this.reader.readInt(4);
    this.relativeOffsetEndOfZip64CentralDir = this.reader.readInt(8);
    this.disksCount = this.reader.readInt(4);
    if (this.disksCount > 1) {
        throw new Error("Multi-volumes zip are not supported");
    }
},

/**
 * Read the local files, based on the offset read in the central part.
 */
readLocalFiles: function() {
    var i, file;
    for (i = 0; i < this.files.length; i++) {
        file = this.files[i];
        this.reader.setIndex(file.localHeaderOffset);
        this.checkSignature(sig.LOCAL_FILE_HEADER);
        file.readLocalPart(this.reader);
        file.handleUTF8();
        file.processAttributes();
    }
},

/**
 * Read the central directory.
 */
readCentralDir: function() {
    var file;
this.reader.setIndex(this.centralDirOffset);
while (this.reader.readAndCheckSignature(sig.CENTRAL_FILE_HEADER)) {
    file = new ZipEntry(
        
    }, this.loadOptions);
    file.readCentralPart(this.reader);
    this.files.push(file);
}

if (this.centralDirRecords !== this.files.length) {
    if (this.centralDirRecords !== 0 && this.files.length === 0) {
        // We expected some records but couldn't find ANY.
        // This is really suspicious, as if something went wrong.
        throw new Error("Corrupted zip or bug: expected "+ this.centralDirRecords + " records in central dir, got "+ this.files.length);
    } else {
        // We found some records but not all.
        // Something is wrong but we got something for the user: no error here.
        // console.warn("expected", this.centralDirRecords, "records in central dir, got", this.files.length);
    }
}
},
/**
 * Read the end of central directory.
 */
readEndOfCentral: function() {
    var offset = this.reader.lastIndexOfSignature(sig.CENTRAL_DIRECTORY_END);
    if (offset < 0) {
        // Check if the content is a truncated zip or complete garbage.
        // A "LOCAL_FILE_HEADER" is not required at the beginning (auto
        // extractible zip for example) but it can give a good hint.
        // If an ajax request was used without responseType, we will also
        // get unreadable data.
        var isGarbage = !this.isSignature(0, sig.LOCAL_FILE_HEADER);

        if (isGarbage) {
            throw new Error("Can't find end of central directory : is this a zip file ? " +
            "If it is, see https://stuk.github.io/jszip/documentation/howto/read_zip.html");
        } else {
            throw new Error("Corrupted zip: can't find end of central directory");
        }
    }
    this.reader.setIndex(offset);
    var endOfCentralDirOffset = offset;
    this.checkSignature(sig.CENTRAL_DIRECTORY_END);
    this.readBlockEndOfCentral();
/* extract from the zip spec:
  4) If one of the fields in the end of central directory
      record is too small to hold required data, the field
      should be set to -1 (0xFFFF or 0xFFFFFFFF) and the
      ZIP64 format record should be created.
  5) The end of central directory record and the
      Zip64 end of central directory locator record must
      reside on the same disk when splitting or spanning
      an archive.
*/

if (this.diskNumber === utils.MAX_VALUE_16BITS || this.diskWithCentralDirStart ===
    utils.MAX_VALUE_16BITS || this.centralDirRecordsOnThisDisk === utils.MAX_VALUE_16BITS ||
    this.centralDirRecords === utils.MAX_VALUE_16BITS || this.centralDirSize === utils.MAX_VALUE_32BITS ||
    this.centralDirOffset === utils.MAX_VALUE_32BITS) {
    this.zip64 = true;

/*
Warning : the zip64 extension is supported, but ONLY if the 64bits integer read from
the zip file can fit into a 32bits integer. This cannot be solved : JavaScript represents
all numbers as 64-bit double precision IEEE 754 floating point numbers.
So, we have 53bits for integers and bitwise operations treat everything as 32bits.
*/

// should look for a zip64 EOCD locator
offset = this.reader.lastIndexOfSignature(sig.ZIP64_CENTRAL_DIRECTORY_LOCATOR);
if (offset < 0) {
    throw new Error("Corrupted zip: can't find the ZIP64 end of central directory locator");
}
this.reader.setIndex(offset);
this.checkSignature(sig.ZIP64_CENTRAL_DIRECTORY_LOCATOR);
this.readBlockZip64EndOfCentralLocator();

// now the zip64 EOCD record
if (!this.isSignature(this.relativeOffsetEndOfZip64CentralDir, sig.ZIP64_CENTRAL_DIRECTORY_END))
{
    // console.warn("ZIP64 end of central directory not where expected.");
    this.relativeOffsetEndOfZip64CentralDir =
    this.reader.lastIndexOfSignature(sig.ZIP64_CENTRAL_DIRECTORY_END);
    if (this.relativeOffsetEndOfZip64CentralDir < 0) {
        throw new Error("Corrupted zip: can't find the ZIP64 end of central directory");
    }
}
this.reader.setIndex(this.relativeOffsetEndOfZip64CentralDir);
this.checkSignature(sig.ZIP64_CENTRAL_DIRECTORY_END);
var expectedEndOfCentralDirOffset = this.centralDirOffset + this.centralDirSize;
if (this.zip64) {
    expectedEndOfCentralDirOffset += 20; // end of central dir 64 locator
    expectedEndOfCentralDirOffset += 12 /* should not include the leading 12 bytes */ +
    this.zip64EndOfCentralSize;
}

var extraBytes = endOfCentralDirOffset - expectedEndOfCentralDirOffset;

if (extraBytes > 0) {
    // console.warn(extraBytes, "extra bytes at beginning or within zipfile");
    if (this.isSignature(endOfCentralDirOffset, sig.CENTRAL_FILE_HEADER)) {
        // The offsets seem wrong, but we have something at the specified offset.
        // So we keep it.
    } else {
        // the offset is wrong, update the "zero" of the reader
        // this happens if data has been prepended (crx files for example)
        this.reader.zero = extraBytes;
    }
} else if (extraBytes < 0) {
    throw new Error("Corrupted zip: missing "+ Math.abs(extraBytes)+" bytes.");
}
}

/*
 * Read a zip file and create ZipEntries.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the binary string representing a zip file.
 */
load: function(data) {
    this.prepareReader(data);
},

// **
// Read a zip file and create ZipEntries.
/*
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the binary string representing a zip file.
 */
load: function(data) {
    this.prepareReader(data);
    this.readEndOfCentralDir();
    this.readCentralDir();
    this.readLocalFiles();
}
};

//]]) end of ZipEntries
module.exports = ZipEntries;
var CompressedObject = require('./compressedObject');
var crc32fn = require('./crc32');
var utf8 = require('./utf8');
var compressions = require('./compressions');
var support = require('./support');

var MADE_BY_DOS = 0x00;
var MADE_BY_UNIX = 0x03;

/**
 * Find a compression registered in JSZip.
 * @param {string} compressionMethod the method magic to find.
 * @return {Object|null} the JSZip compression object, null if none found.
 */
var findCompression = function(compressionMethod) {
    for (var method in compressions) {
        if (!compressions.hasOwnProperty(method)) {
            continue;
        }
        if (compressions[method].magic === compressionMethod) {
            return compressions[method];
        }
    }
    return null;
};

// class ZipEntry {{
/**
 * An entry in the zip file.
 * @constructor
 * @param {Object} options Options of the current file.
 * @param {Object} loadOptions Options for loading the stream.
 */
function ZipEntry(options, loadOptions) {
    this.options = options;
    this.loadOptions = loadOptions;
}
ZipEntry.prototype = {
    /**
     * say if the file is encrypted.
     * @return {boolean} true if the file is encrypted, false otherwise.
     */
    isEncrypted: function() {
        // bit 1 is set
        return (this.bitFlag & 0x0001) === 0x0001;
    },
    /**
     * say if the file has utf-8 filename/comment.
     */
};

// class ZipEntry { */
* @return {boolean} true if the filename/comment is in utf-8, false otherwise.
 */
useUTF8: function() {
    // bit 11 is set
    return (this.bitFlag & 0x0800) === 0x0800;
};
/**
* Read the local part of a zip file and add the info in this object.
* @param {DataReader} reader the reader to use.
*/
readLocalPart: function(reader) {
    var compression, localExtraFieldsLength;

    // we already know everything from the central dir !
    // If the central dir data are false, we are doomed.
    // On the bright side, the local part is scary : zip64, data descriptors, both, etc.
    // The less data we get here, the more reliable this should be.
    // Let's skip the whole header and dash to the data !
    reader.skip(22);
    // in some zip created on windows, the filename stored in the central dir contains \ instead of /.
    // Strangely, the filename here is OK.
    // I would love to treat these zip files as corrupted (see http://www.info-zip.org/FAQ.html#backslashes
    // or APPNOTE#4.4.17.1, "All slashes MUST be forward slashes '/'") but there are a lot of bad zip generators...
    // Search "unzip mismatching "local" filename continuing with "central" filename version" on
    // the internet.
    //
    // I think I see the logic here : the central directory is used to display
    // content and the local directory is used to extract the files. Mixing / and \n    // may be used to display \ to windows users and use / when extracting the files.
    // Unfortunately, this lead also to some issues : http://seclists.org/fulldisclosure/2009/Sep/394
    // the fileName is stored as binary data, the handleUTF8 method will take care of the encoding.
    //
    this.fileNameLength = reader.readInt(2);
    localExtraFieldsLength = reader.readInt(2); // can't be sure this will be the same as the central dir
    // the fileName is stored as binary data, the handleUTF8 method will take care of the encoding.
    this.fileName = reader.readData(this.fileNameLength);
    reader.skip(localExtraFieldsLength);
    if (this.compressedSize === -1 || this.uncompressedSize === -1) {
        throw new Error("Bug or corrupted zip : didn't get enough information from the central directory " +
                        "(compressedSize === -1 || uncompressedSize === -1)");
    }

    compression = findCompression(this.compressionMethod);
    if (compression === null) { // no compression found
        throw new Error("Corrupted zip : compression " + utils.pretty(this.compressionMethod) + " unknown (inner
                        file : " + utils.transformTo("string", this.fileName) + ")");
    }
    this.decompressed = new CompressedObject(this.compressedSize, this.uncompressedSize, this.crc32,
                                              compression, reader.readData(this.compressedSize));
/**
 * Read the central part of a zip file and add the info in this object.
 * @param {DataReader} reader the reader to use.
 */
readCentralPart: function(reader) {
    this.versionMadeBy = reader.readInt(2);
    reader.skip(2);
    // this.versionNeeded = reader.readInt(2);
    this.bitFlag = reader.readInt(2);
    this.compressionMethod = reader.readString(2);
    this.date = reader.readDate();
    this.crc32 = reader.readInt(4);
    this.compressedSize = reader.readInt(4);
    this.uncompressedSize = reader.readInt(4);
    var fileNameLength = reader.readInt(2);
    this.extraFieldsLength = reader.readInt(2);
    this.fileCommentLength = reader.readInt(2);
    this.diskNumberStart = reader.readInt(2);
    this.internalFileAttributes = reader.readInt(2);
    this.externalFileAttributes = reader.readInt(4);
    this.localHeaderOffset = reader.readInt(4);

    if (this.isEncrypted()) {
        throw new Error("Encrypted zip are not supported");
    }

    // will be read in the local part, see the comments there
    reader.skip(fileNameLength);
    this.readExtraFields(reader);
    this.parseZIP64ExtraField(reader);
    this.fileComment = reader.readData(this.fileCommentLength);
},

/**
 * Parse the external file attributes and get the unix/dos permissions.
 */
processAttributes: function () {
    this_unixPermissions = null;
    this_dosPermissions = null;
    var madeBy = this_versionMadeBy >> 8;

    // Check if we have the DOS directory flag set.
    // We look for it in the DOS and UNIX permissions
    // but some unknown platform could set it as a compatibility flag.
    this.dir = this.externalFileAttributes & 0x0010 ? true : false;

if(madeBy === MADE_BY_DOS) {
  // first 6 bits (0 to 5)
  this.dosPermissions = this.externalFileAttributes & 0x3F;
}

if(madeBy === MADE_BY_UNIX) {
  this.unixPermissions = (this.externalFileAttributes >> 16) & 0xFFFF;
  // the octal permissions are in (this.unixPermissions & 0x01FF).toString(8);
}

// fail safe : if the name ends with a / it probably means a folder
if (!this.dir && this.fileNameStr.slice(-1) === '/') {
  this.dir = true;
}
}

/**
 * Parse the ZIP64 extra field and merge the info in the current ZipEntry.
 * @param {DataReader} reader the reader to use.
 * /
parseZIP64ExtraField: function(reader) {

  if (!this.extraFields[0x0001]) {
    return;
  }

  // should be something, preparing the extra reader
  var extraReader = readerFor(this.extraFields[0x0001].value);

  // I really hope that these 64bits integer can fit in 32 bits integer, because js
  // won't let us have more.
  if (this.uncompressedSize === utils.MAX_VALUE_32BITS) {
    this.uncompressedSize = extraReader.readInt(8);
  }
  if (this.compressedSize === utils.MAX_VALUE_32BITS) {
    this.compressedSize = extraReader.readInt(8);
  }
  if (this.localHeaderOffset === utils.MAX_VALUE_32BITS) {
    this.localHeaderOffset = extraReader.readInt(8);
  }
  if (this.diskNumberStart === utils.MAX_VALUE_32BITS) {
    this.diskNumberStart = extraReader.readInt(4);
  }
}

/**
 * Read the central part of a zip file and add the info in this object.
 * @param {DataReader} reader the reader to use.
 * /

readExtraFields: function(reader) {
    var end = reader.index + this.extraFieldsLength,
        extraFieldId,
        extraFieldLength,
        extraFieldValue;

    if (!this.extraFields) {
        this.extraFields = {};
    }

    while (reader.index < end) {
        extraFieldId = reader.readInt(2);
        extraFieldLength = reader.readInt(2);
        extraFieldValue = reader.readData(extraFieldLength);

        this.extraFields[extraFieldId] = {
            id: extraFieldId,
            length: extraFieldLength,
            value: extraFieldValue
        };
    }
}

/**
 * Apply an UTF8 transformation if needed.
 */
handleUTF8: function() {
    var decodeParamType = support.uint8array ? "uint8array" : "array";
    if (this.useUTF8()) {
        this.fileNameStr = utf8.utf8decode(this.fileName);
        this.fileCommentStr = utf8.utf8decode(this.fileComment);
    } else {
        var upath = this.findExtraFieldUnicodePath();
        if (upath !== null) {
            this.fileNameStr = upath;
        } else {
            // ASCII text or unsupported code page
            var fileNameByteArray = utils.transformTo(decodeParamType, this.fileName);
            this.fileNameStr = this.loadOptions.decodeFileName(fileNameByteArray);
        }

        var ucomment = this.findExtraFieldUnicodeComment();
        if (ucomment !== null) {
            this.fileCommentStr = ucomment;
        } else {
            // ASCII text or unsupported code page
            var commentByteArray = utils.transformTo(decodeParamType, this.fileComment);
            this.fileCommentStr = this.loadOptions.decodeFileName(commentByteArray);
        }
    }
}
findExtraFieldUnicodePath: function() {
    var upathField = this.extraFields[0x7075];
    if (upathField) {
        var extraReader = readerFor(upathField.value);

        // wrong version
        if (extraReader.readInt(1) !== 1) {
            return null;
        }

        // the crc of the filename changed, this field is out of date.
        if (crc32fn(this.fileName) !== extraReader.readInt(4)) {
            return null;
        }

        return utf8.utf8decode(extraReader.readData(upathField.length - 5));
    }
    return null;
},

findExtraFieldUnicodeComment: function() {
    var ucommentField = this.extraFields[0x6375];
    if (ucommentField) {
        var extraReader = readerFor(ucommentField.value);

        // wrong version
        if (extraReader.readInt(1) !== 1) {
            return null;
        }

        // the crc of the comment changed, this field is out of date.
        if (crc32fn(this.fileComment) !== extraReader.readInt(4)) {
            return null;
        }

        return utf8.utf8decode(extraReader.readData(ucommentField.length - 5));
    }
}
return null;
};

module.exports = ZipEntry;

/*
 * A simple object representing a file in the zip file.
 * @constructor
 * @param {string} name the name of the file
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data
 * @param {Object} options the options of the file
 */

var ZipObject = function(name, data, options) {
    this.name = name;
    this.dir = options.dir;
    this.date = options.date;
    this.comment = options.comment;
    this.unixPermissions = options.unixPermissions;
    this.dosPermissions = options.dosPermissions;

    this._data = data;
    this._dataBinary = options.binary;
    // keep only the compression
    this.options = {
        compression : options.compression,
        compressionOptions : options.compressionOptions
    };
};

ZipObject.prototype = {

/**
 * Create an internal stream for the content of this object.
 * @param {String} type the type of each chunk.
 * @return StreamHelper the stream.
 */

internalStream: function(type) {
    var result = null, outputType = "string";
    try {

if (!type) {
    throw new Error("No output type specified.");
}
outputType = type.toLowerCase();
var askUnicodeString = outputType === "string" || outputType === "text";
if (outputType === "binarystring" || outputType === "text") {
    outputType = "string";
}
result = this._decompressWorker();

var isUnicodeString = !this._dataBinary;

if (isUnicodeString && !askUnicodeString) {
    result = result.pipe(new utf8.Utf8EncodeWorker());
}
if (!isUnicodeString && askUnicodeString) {
    result = result.pipe(new utf8.Utf8DecodeWorker());
}

} catch (e) {
    result = new GenericWorker("error");
    result.error(e);
}

return new StreamHelper(result, outputType, "");

/**
* Prepare the content in the asked type.
* @param {String} type the type of the result.
* @param {Function} onUpdate a function to call on each internal update.
* @return Promise the promise of the result.
*/
async: function (type, onUpdate) {
    return this.internalStream(type).accumulate(onUpdate);
},

/**
* Prepare the content as a nodejs stream.
* @param {String} type the type of each chunk.
* @param {Function} onUpdate a function to call on each internal update.
* @return Stream the stream.
*/
nodeStream: function (type, onUpdate) {
    return this.internalStream(type || "nodebuffer").toNodejsStream(onUpdate);
},

/**
* Return a worker for the compressed content.
*
_compressWorker: function (compression, compressionOptions) {
    if (this._data instanceof CompressedObject &&
        this._data.compression.magic === compression.magic) {
        return this._data.getCompressedWorker();
    } else {
        var result = this._decompressWorker();
        if(!this._dataBinary) {
            result = result.pipe(new utf8.Utf8EncodeWorker());
        }
        return CompressedObject.createWorkerFrom(result, compression, compressionOptions);
    }
},
/**
* Return a worker for the decompressed content.
* @private
* @return Worker the worker.
*/
_decompressWorker : function () {
    if (this._data instanceof CompressedObject) {
        return this._data.getContentWorker();
    } else if (this._data instanceof GenericWorker) {
        return this._data;
    } else {
        return new DataWorker(this._data);
    }
};

var removedMethods = ["asText", "asBinary", "asNodeBuffer", "asUint8Array", "asArrayBuffer"]; var removedFn = function () {
    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
};

for(var i = 0; i < removedMethods.length; i++) {
    ZipObject.prototype[removedMethods[i]] = removedFn;
}
module.exports = ZipObject;

},{"./compressedObject":2,"./stream/DataWorker":27,"./stream/GenericWorker":28,"./stream/StreamHelper":29,"/utf8":31}],36:}
'use strict';
var Mutation = global.MutationObserver || global.WebKitMutationObserver;

var scheduleDrain;
{
  if (Mutation) {
    var called = 0;
    var observer = new Mutation(nextTick);
    var element = global.document.createTextNode('');
    observer.observe(element, {
      characterData: true
    });
    scheduleDrain = function () {
      element.data = (called = ++called % 2);
    };
  } else if (!global.setImmediate && typeof global.MessageChannel !== 'undefined') {
    var channel = new global.MessageChannel();
    channel.port1.onmessage = nextTick;
    scheduleDrain = function () {
      channel.port2.postMessage(0);
    };
  } else if ('document' in global && 'onreadystatechange' in global.document.createElement('script')) {
    scheduleDrain = function () {
      // Create a <script> element; its readystatechange event will be fired asynchronously once it is inserted
      // into the document. Do so, thus queuing up the task. Remember to clean up once it's been called.
      var scriptEl = global.document.createElement('script');
      scriptEl.onreadystatechange = function () {
        nextTick();
        scriptEl.onreadystatechange = null;
        scriptEl.parentNode.removeChild(scriptEl);
        scriptEl = null;
      };;
      global.document.documentElement.appendChild(scriptEl);
    };
  } else {
    scheduleDrain = function () {
      setTimeout(nextTick, 0);
    };
  }
}

var draining;
var queue = [];
//named nextTick for less confusing stack traces
function nextTick() {

draining = true;
var i, oldQueue;
var len = queue.length;
while (len) {
    oldQueue = queue;
    queue = [];
    i = -1;
    while (++i < len) {
        oldQueue[i]();
    }
    len = queue.length;
}
draining = false;

module.exports = immediate;
function immediate(task) {
    if (queue.push(task) === 1 &amp;&amp; !draining) {
        scheduleDrain();
    }
}

Promise = require('immediate').call(this,typeof global !== "undefined" ? global : typeof self !== "undefined" ? self : typeof window !== "undefined" ? window : {});

/* istanbul ignore next */
function INTERNAL() {}

var handlers = {};
var REJECTED = ['REJECTED'];
var FULFILLED = ['FULFILLED'];
var PENDING = ['PENDING'];

module.exports = Promise;

function Promise(resolver) {
    if (typeof resolver !== 'function') {
        throw new TypeError('resolver must be a function');
    }
    this.state = PENDING;
    this.queue = [];
    this.outcome = void 0;
    if (resolver !== INTERNAL) {
        safelyResolveThenable(this, resolver);
Promise.prototype['finally'] = function (callback) {
    if (typeof callback !== 'function') {
        return this;
    }
    var p = this.constructor;
    return this.then(resolve, reject);
}

function resolve(value) {
    function yes () {
        return value;
    }
    return p.resolve(callback()).then(yes);
}
function reject(reason) {
    function no () {
        throw reason;
    }
    return p.resolve(callback()).then(no);
}

Promise.prototype['catch'] = function (onRejected) {
    return this.then(null, onRejected);
};

Promise.prototype.then = function (onFulfilled, onRejected) {
    if (typeof onFulfilled !== 'function' && this.state === FULFILLED ||
        typeof onRejected !== 'function' && this.state === REJECTED) {
        return this;
    } else {
        this.queue.push(new QueueItem(promise, onFulfilled, onRejected));
    }
    return promise;
};

function QueueItem(promise, onFulfilled, onRejected) {
    this.promise = promise;
    if (typeof onFulfilled === 'function') {
        this.onFulfilled = onFulfilled;
        this.callFulfilled = this.otherCallFulfilled;
    }
    if (typeof onRejected === 'function') {
this.onRejected = onRejected;
this.callRejected = this.otherCallRejected;
}
}
QueueItem.prototype.callFulfilled = function (value) {
    handlers.resolve(this.promise, value);
};
QueueItem.prototype.otherCallFulfilled = function (value) {
    unwrap(this.promise, this.onFulfilled, value);
};
QueueItem.prototype.callRejected = function (value) {
    handlers.reject(this.promise, value);
};
QueueItem.prototype.otherCallRejected = function (value) {
    unwrap(this.promise, this.onRejected, value);
};

function unwrap(promise, func, value) {
    immediate(function () {
        var returnValue;
        try {
            returnValue = func(value);
        } catch (e) {
            return handlers.reject(promise, e);
        }
        if (returnValue === promise) {
            handlers.reject(promise, new TypeError('Cannot resolve promise with itself'));
        } else {
            handlers.resolve(promise, returnValue);
        }
    });
}

handlers.resolve = function (self, value) {
    var result = tryCatch(getThen, value);
    if (result.status === 'error') {
        return handlers.reject(self, result.value);
    } else {
        safelyResolveThenable(self, result.value);
    }
    var thenable = result.value;
    if (thenable) {
        safelyResolveThenable(self, thenable);
    } else {
        self.state = FULFILLED;
        self.outcome = value;
        var i = -1;
        var len = self.queue.length;
        while (++i < len) {
            handlers.resolve(self.promise, self.queue[i].value);
        }
    }
}

while (++i < len) {
self.queue[i].callFulfilled(value);
}
return self;
};
handlers.reject = function (self, error) {
    self.state = REJECTED;
    self.outcome = error;
    var i = -1;
    var len = self.queue.length;
    while (++i < len) {
        self.queue[i].callRejected(error);
    }
    return self;
};

function getThen(obj) {
    // Make sure we only access the accessor once as required by the spec
    var then = obj && obj.then;
    if (obj && (typeof obj === 'object' || typeof obj === 'function') && typeof then === 'function') {
        return function appyThen() {
            then.apply(obj, arguments);
        };
    }
}

function safelyResolveThenable(self, thenable) {
    // Either fulfill, reject or reject with error
    var called = false;
    function onError(value) {
        if (called) {
            return;
        }
        called = true;
        handlers.reject(self, value);
    }
    function onSuccess(value) {
        if (called) {
            return;
        }
        called = true;
        handlers.resolve(self, value);
    }
    function tryToUnwrap() {
        thenable(onSuccess, onError);
    }
}
var result = tryCatch(tryToUnwrap);
if (result.status === 'error') {
    onError(result.value);
}
}

function tryCatch(func, value) {
    var out = {};
    try {
        out.value = func(value);
        out.status = 'success';
    } catch (e) {
        out.status = 'error';
        out.value = e;
    }
    return out;
}

Promise.resolve = resolve;
function resolve(value) {
    if (value instanceof this) {
        return value;
    }
    return handlers.resolve(new this(INTERNAL), value);
}

Promise.reject = reject;
function reject(reason) {
    var promise = new this(INTERNAL);
    return handlers.reject(promise, reason);
}

Promise.all = all;
function all(iterable) {
    var self = this;
    if (Object.prototype.toString.call(iterable) !== '[object Array]') {
        return this.reject(new TypeError('must be an array'));
    }
    var len = iterable.length;
    var called = false;
    if (!len) {
        return this.resolve([]);
    }
    var values = new Array(len);
    var resolved = 0;

var i = -1;
var promise = new this(INTERNAL);

while (++i < len) {
    allResolver(iterable[i], i);
}
return promise;

function allResolver(value, i) {
    self.resolve(value).then(resolveFromAll, function (error) {
        if (!called) {
            called = true;
            handlers.reject(promise, error);
        }
    });
    function resolveFromAll(outValue) {
        values[i] = outValue;
        if (++resolved === len && !called) {
            called = true;
            handlers.resolve(promise, values);
        }
    }
}

Promise.race = race;
function race(iterable) {
    var self = this;
    if (Object.prototype.toString.call(iterable) !== '[object Array]') {
        return this.reject(new TypeError('must be an array'));
    }

    var len = iterable.length;
    var called = false;
    if (!len) {
        return this.resolve([]);
    }

    var i = -1;
    var promise = new this(INTERNAL);

    while (++i < len) {
        resolver(iterable[i]);
    }

    return promise;

    function resolver(value) {
        self.resolve(value).then(function (response) {
            if (!called) {
                called = true;
            }
        });
    }
}
handlers.resolve(promise, response);
}
}, function (error) {
  if (!called) {
    called = true;
    handlers.reject(promise, error);
  }
});
}

// Top level file is just a mixin of submodules & constants
'top level file'

var assign = require('./lib/utils/common').assign;

var deflate = require('./lib/deflate');
var inflate = require('./lib/inflate');
var constants = require('./lib/zlib/constants');

var pako = {};
assign(pako, deflate, inflate, constants);

module.exports = pako;

var zlib_deflate = require('./zlib/deflate');
var utils = require('./utils/common');
var strings = require('./utils/strings');
var msg = require('./zlib/messages');
var ZStream = require('./zlib/zstream');

var toString = Object.prototype.toString;

/* Public constants ==========================================================*/
/* ===========================================================================*/
var Z_NO_FLUSH = 0;
var Z_FINISH = 4;
var Z_OK = 0;
var Z_STREAM_END = 1;
```javascript
var Z_SYNC_FLUSH = 2;

var Z_DEFAULT_COMPRESSION = -1;

var Z_DEFAULT_STRATEGY = 0;

var Z_DEFLATED = 8;

/* ===============*/

/**
 * class Deflate
 *
 * Generic JS-style wrapper for zlib calls. If you don't need
 * streaming behaviour - use more simple functions: [[deflate]],
 * [[deflateRaw]] and [[gzip]].
 * **/

/* internal
 * Deflate.chunks -> Array
 *
 * Chunks of output data, if [[Deflate#onData]] not overridden.
 */

/**
 * Deflate.result -> Uint8Array|Array
 *
 * Compressed result, generated by default [[Deflate#onData]]
 * and [[Deflate#onEnd]] handlers. Filled after you push last chunk
 * (call [[Deflate#push]] with `Z_FINISH` / `true` param) or if you
 * push a chunk with explicit flush (call [[Deflate#push]] with
 * `Z_SYNC_FLUSH` param).
 */

/**
 * Deflate.err -> Number
 *
 * Error code after deflate finished. 0 (Z_OK) on success.
 * You will not need it in real life, because deflate errors
 * are possible only on wrong options or bad `onData` / `onEnd`
 * custom handlers.
 */

/**
 * Deflate.msg -> String
 *
 * Error message, if [[Deflate.err]] !== 0
 */
```
new Deflate(options)
- options (Object): zlib deflate options.

Creates new deflator instance with specified params. Throws exception on bad params. Supported options:

- `level`
- `windowBits`
- `memLevel`
- `strategy`
- `dictionary`

[http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
for more information on these.

Additional options, for internal needs:

- `chunkSize` - size of generated data chunks (16K by default)
- `raw` (Boolean) - do raw deflate
- `gzip` (Boolean) - create gzip wrapper
- `to` (String) - if equal to 'string', then result will be "binary string"
  (each char code [0..255])
- `header` (Object) - custom header for gzip
  - `text` (Boolean) - true if compressed data believed to be text
  - `time` (Number) - modification time, unix timestamp
  - `os` (Number) - operation system code
  - `extra` (Array) - array of bytes with extra data (max 65536)
  - `name` (String) - file name (binary string)
  - `comment` (String) - comment (binary string)
  - `hcrc` (Boolean) - true if header crc should be added

##### Example:

```javascript
var pako = require('pako')
, chunk1 = Uint8Array([1,2,3,4,5,6,7,8,9])
, chunk2 = Uint8Array([10,11,12,13,14,15,16,17,18,19]);

var deflate = new pako.Deflate({ level: 3});
deflate.push(chunk1, false);
deflate.push(chunk2, true);  // true -> last chunk
if (deflate.err) { throw new Error(deflate.err); }
```
*  
* console.log(deflate.result); 
* ```  
**/  
function Deflate(options) {  
if (!(this instanceof Deflate)) return new Deflate(options);  
  
this.options = utils.assign(  
  level: Z_DEFAULT_COMPRESSION,  
  method: Z_DEFLATED,  
  chunkSize: 16384,  
  windowBits: 15,  
  memLevel: 8,  
  strategy: Z_DEFAULT_STRATEGY,  
  to: "  
}, options || {});  
  
var opt = this.options;  
  
if (opt.raw && (opt.windowBits > 0)) {  
  opt.windowBits = -opt.windowBits;  
}
else if (opt.gzip && (opt.windowBits > 0) && (opt.windowBits < 16)) {  
  opt.windowBits += 16;  
}  

this.err = 0;   // error code, if happens (0 = Z_OK)
this.msg = "";  // error message
this.ended = false;  // used to avoid multiple onEnd() calls
thischunks = [];  // chunks of compressed data
  
this.strm = new ZStream();
this.strm.avail_out = 0;
  
var status = zlib_deflate.deflateInit2(  
  this.strm,  
  opt.level,  
  opt.method,  
  opt.windowBits,  
  opt.memLevel,  
  opt.strategy  
);
  
if (status !== Z_OK) {  
  throw new Error(msg[status]);  
}
if (opt.header) {
    zlib_deflate.deflateSetHeader(this.strm, opt.header);
}

if (opt.dictionary) {
    var dict;
    // Convert data if needed
    if (typeof opt.dictionary === 'string') {
        // If we need to compress text, change encoding to utf8.
        dict = strings.string2buf(opt.dictionary);
    } else if (toString.call(opt.dictionary) === '[object ArrayBuffer]') {
        dict = new Uint8Array(opt.dictionary);
    } else {
        dict = opt.dictionary;
    }
    status = zlib_deflate.deflateSetDictionary(this.strm, dict);

    if (status !== Z_OK) {
        throw new Error(msg[status]);
    }
    this._dict_set = true;
}

/**
 * Deflate#push(data[, mode]) -> Boolean
 * - data (Uint8Array|Array|ArrayBuffer|String): input data. Strings will be
 *   converted to utf8 byte sequence.
 * - mode (Number|Boolean): 0..6 for corresponding Z_NO_FLUSH..Z_TREE modes.
 *   See constants. Skipped or `false` means Z_NO_FLUSH, `true` meansh Z_FINISH.
 * * Sends input data to deflate pipe, generating [[Deflate#onData]] calls with
 * new compressed chunks. Returns `true` on success. The last data block must have
 * mode Z_FINISH (or `true`). That will flush internal pending buffers and call
 * [[Deflate#onEnd]]. For interim explicit flushes (without ending the stream) you
 * can use mode Z_SYNC_FLUSH, keeping the compression context.
 * * On fail call [[Deflate#onEnd]] with error code and return false.
 * * We strongly recommend to use `Uint8Array` on input for best speed (output
 * array format is detected automatically). Also, don't skip last param and always
 * use the same type in your code (boolean or number). That will improve JS speed.
 * * For regular `Array`-s make sure all elements are [0..255].
 * * ###### Example
```javascript
/**
 * push(chunk, false); // push one of data chunks
 * ...
 * push(chunk, true); // push last chunk
 * ```
 * Deflate.prototype.push = function (data, mode) {
 * var strm = this.strm;
 * var chunkSize = this.options.chunkSize;
 * var status, _mode;
 *
 * if (this.ended) { return false; }
 *
 * _mode = (mode === ~~mode) ? mode : ((mode === true) ? Z_FINISH : Z_NO_FLUSH);
 *
 * // Convert data if needed
 * if (typeof data === 'string') {
 *   // If we need to compress text, change encoding to utf8.
 *   strm.input = strings.string2buf(data);
 * } else if (toString.call(data) === '[object ArrayBuffer]') {
 *   strm.input = new Uint8Array(data);
 * } else {
 *   strm.input = data;
 * }
 *
 * strm.next_in = 0;
 * strm.avail_in = strm.input.length;
 *
 * do {
 *   if (strm.avail_out === 0) {
 *     strm.output = new utils.Buf8(chunkSize);
 *     strm.next_out = 0;
 *     strm.avail_out = chunkSize;
 *   }
 *   status = zlib_deflate.deflate(strm, _mode); /* no bad return value */
 *
 *   if (status !== Z_STREAM_END && status !== Z_OK) {
 *     this.onEnd(status);
 *     this.ended = true;
 *     return false;
 *   }
 * } while (strm.avail_out === 0 || (strm.avail_in === 0 && (_mode === Z_FINISH || _mode === Z_SYNC_FLUSH)))
 *
 *   if (this.options.to === 'string') {
 *     this.onData(strings.buf2binstring(utils.shrinkBuf(strm.output, strm.next_out)));
 *   } else {
 *     this.onData(utils.shrinkBuf(strm.output, strm.next_out));
 *   }
 */
```
} while ((strm.avail_in > 0 || strm.avail_out === 0) && status !== Z_STREAM_END);

// Finalize on the last chunk.
if (_mode === Z_FINISH) {
  status = zlib_deflate.deflateEnd(this.strm);
  this.onEnd(status);
  this.ended = true;
  return status === Z_OK;
}

// callback interim results if Z_SYNC_FLUSH.
if (_mode === Z_SYNC_FLUSH) {
  this.onEnd(Z_OK);
  strm.avail_out = 0;
  return true;
}

return true;
};

/**
 * Deflate#onData(chunk) -> Void
 * - chunk (Uint8Array|Array|String): output data. Type of array depends
 * on js engine support. When string output requested, each chunk
 * will be string.
 * By default, stores data blocks in `chunks[]` property and glue
 * those in `onEnd`. Override this handler, if you need another behaviour.
 **/
Deflate.prototype.onData = function (chunk) {
  this.chunks.push(chunk);
};

/**
 * Deflate#onEnd(status) -> Void
 * - status (Number): deflate status. 0 (Z_OK) on success,
 * other if not.
 * Called once after you tell deflate that the input stream is
 * complete (Z_FINISH) or should be flushed (Z_SYNC_FLUSH)
 * or if an error happened. By default - join collected chunks,
 * free memory and fill `results` / `err` properties.
 **/
Deflate.prototype.onEnd = function (status) {
  // On success - join
if (status === Z_OK) {
    if (this.options.to === 'string') {
        this.result = this.chunks.join('');
    } else {
        this.result = utils.flattenChunks(this.chunks);
    }
}
this.chunks = [];
this.err = status;
this.msg = this.strm.msg;
};

/**
 * deflate(data[, options]) -> Uint8Array|Array|String
 * - data (Uint8Array|Array|String): input data to compress.
 * - options (Object): zlib deflate options.
 * * Compress `data` with deflate algorithm and `options`.
 * * Supported options are:
 * * - level
 * - windowBits
 * - memLevel
 * - strategy
 * - dictionary
 * * [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
 * for more information on these.
 * * Sugar (options):
 * * - `raw` (Boolean) - say that we work with raw stream, if you don't wish to specify
 *   negative windowBits implicitly.
 * - `to` (String) - if equal to 'string', then result will be "binary string"
 *   (each char code [0..255])
 * * ###### Example:
 * * ```javascript
 * var pako = require('pako')
 * . data = Uint8Array([1,2,3,4,5,6,7,8,9]):
 * *
 * console.log(pako.deflate(data));
 * ```
 * */
function deflate(input, options) {

var deflator = new Deflate(options);

deflator.push(input, true);

// That will never happens, if you don't cheat with options :)
if (deflator.err) { throw deflator.msg || msg[deflator.err]; }

return deflator.result;
}

/**
 * deflateRaw(data[, options]) -> Uint8Array|Array|String
 * - data (Uint8Array|Array|String): input data to compress.
 * - options (Object): zlib deflate options.
 *
 * The same as [[deflate]], but creates raw data, without wrapper
 * (header and adler32 crc).
 **/
function deflateRaw(input, options) {
  options = options || {};
  options.raw = true;
  return deflate(input, options);
}

/**
 * gzip(data[, options]) -> Uint8Array|Array|String
 * - data (Uint8Array|Array|String): input data to compress.
 * - options (Object): zlib deflate options.
 *
 * The same as [[deflate]], but create gzip wrapper instead of
 * deflate one.
 **/
function gzip(input, options) {
  options = options || {};
  options.gzip = true;
  return deflate(input, options);
}

exports.Deflate = Deflate;
exports.deflate = deflate;
exports.deflateRaw = deflateRaw;
exports.gzip = gzip;
'use strict';

var zlib_inflate = require('./zlib/inflate');
var util        = require('./utils/common');
var strings     = require('./utils/strings');
var c           = require('./zlib/constants');
var msg         = require('./zlib/messages');
var ZStream     = require('./zlib/zstream');
var GZheader    = require('./zlib/gzheader');

var toString = Object.prototype.toString;

/**
 * class Inflate
 *
 * Generic JS-style wrapper for zlib calls. If you don't need
 * streaming behaviour - use more simple functions: [[inflate]]
 * and [[inflateRaw]].
 * **/

/* internal
 * inflate.chunks -> Array
 *
 * Chunks of output data, if [[Inflate#onData]] not overridden.
 * **/

/**
 * Inflate.result -> Uint8Array|Array|String
 *
 * Uncompressed result, generated by default [[Inflate#onData]]
 * and [[Inflate#onEnd]] handlers. Filled after you push last chunk
 * (call [[Inflate#push]] with 'Z_FINISH' / 'true' param) or if you
 * push a chunk with explicit flush (call [[Inflate#push]] with
 * 'Z_SYNC_FLUSH' param).
 * **/

/**
 * Inflate.err -> Number
 *
 * Error code after inflate finished. 0 (Z_OK) on success.
 * Should be checked if broken data possible.
 * **/

/**
 * Inflate.msg -> String
 *
 * Error message, if [[Inflate.err]] != 0
/**
 * new Inflate(options)
 * - options (Object): zlib inflate options.
 *
 * Creates new inflator instance with specified params. Throws exception
 * on bad params. Supported options:
 *
 * - `windowBits`
 * - `dictionary`
 *
 * [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
 * for more information on these.
 *
 * Additional options, for internal needs:
 *
 * - `chunkSize` - size of generated data chunks (16K by default)
 * - `raw` (Boolean) - do raw inflate
 * - `to` (String) - if equal to `string`, then result will be converted
 * from utf8 to utf16 (javascript) string. When string output requested,
 * chunk length can differ from `chunkSize`, depending on content.
 *
 * By default, when no options set, autodetect deflate/gzip data format via
 * wrapper header.
 *
 * ###### Example:
 *
 * ```javascript
 * var pako = require('pako')
 * , chunk1 = Uint8Array([1,2,3,4,5,6,7,8,9])
 * , chunk2 = Uint8Array([10,11,12,13,14,15,16,17,18,19]);
 *
 * var inflate = new pako.Inflate({ level: 3});
 *
 * inflate.push(chunk1, false);
 * inflate.push(chunk2, true);  // true -> last chunk
 *
 * if (inflate.err) { throw new Error(inflate.err); }
 *
 * console.log(inflate.result);
 * ```
 *
 */

function Inflate(options) {
  if (!(this instanceof Inflate)) return new Inflate(options);

  this.options = utils.assign({
chunkSize: 16384,
windowBits: 0,
to: ”
}, options || {});

var opt = this.options;

// Force window size for `raw` data, if not set directly,
// because we have no header for autodetect.
if (opt.raw && (opt.windowBits >= 0) && (opt.windowBits < 16)) {
  opt.windowBits = -opt.windowBits;
  if (opt.windowBits === 0) { opt.windowBits = -15; }
}

// If `windowBits` not defined (and mode not raw) - set autodetect flag for gzip/deflate
if ((opt.windowBits >= 0) && (opt.windowBits < 16) &&
!(options && options.windowBits)) {
  opt.windowBits += 32;
}

// Gzip header has no info about windows size, we can do autodetect only
// for deflate. So, if window size not set, force it to max when gzip possible
if ((opt.windowBits > 15) && (opt.windowBits < 48)) {
  // bit 3 (16) -> gzipped data
  // bit 4 (32) -> autodetect gzip/deflate
  if ((opt.windowBits & 15) === 0) {
    opt.windowBits |= 15;
  }
}

this.err = 0;    // error code, if happens (0 = Z_OK)
this.msg = ”;    // error message
this.ended = false; // used to avoid multiple onEnd() calls
this.chunks = [];
this.strm = new ZStream();
this.strm.avail_out = 0;

var status = zlib_inflate.inflateInit2(
  this.strm,
  opt.windowBits
);

if (status !== c.Z_OK) {
  throw new Error(msg[status]);
}

this.header = new GZheader();
```javascript
    zlib_inflate.inflateGetHeader(this.strm, this.header);
}

/**
 * Inflate#push(data[, mode]) -> Boolean
 * - data (Uint8Array|Array|ArrayBuffer|String): input data
 * - mode (Number|Boolean): 0..6 for corresponding Z_NO_FLUSH..Z_TREE modes.
 *   See constants. Skipped or 'false' means Z_NO_FLUSH, 'true' means Z_FINISH.
 * *
 * Sends input data to inflate pipe, generating [[Inflate#onData]] calls with
 * new output chunks. Returns 'true' on success. The last data block must have
 * mode Z_FINISH (or 'true'). That will flush internal pending buffers and call
 * [[Inflate#onEnd]]. For interim explicit flushes (without ending the stream) you
 * can use mode Z_SYNC_FLUSH, keeping the decompression context.
 * *
 * On fail call [[Inflate#onEnd]] with error code and return false.
 * *
 * We strongly recommend to use `Uint8Array` on input for best speed (output
 * format is detected automatically). Also, don't skip last param and always
 * use the same type in your code (boolean or number). That will improve JS speed.
 * *
 * For regular `Array`-s make sure all elements are [0..255].
 * *
 * ##### Example
 * *
 * ```javascript
 * push(chunk, false); // push one of data chunks
 * ...  
 * push(chunk, true); // push last chunk
 * ```
 */
Inflate.prototype.push = function (data, mode) {
    var strm = this.strm;
    var chunkSize = this.options.chunkSize;
    var dictionary = this.options.dictionary;
    var status, _mode;
    var next_out_utf8, tail, utf8str;
    var dict;
    // Flag to properly process Z_BUF_ERROR on testing inflate call
    // when we check that all output data was flushed.
    var allowBufError = false;

    if (this.ended) { return false; }
    _mode = (mode === ~~mode) ? mode : ((mode === true) ? c.Z_FINISH : c.Z_NO_FLUSH);

    // Convert data if needed
    ```javascript
```
```javascript
if (typeof data === 'string') {
    // Only binary strings can be decompressed on practice
    strm.input = strings.binstring2buf(data);
} else if (toString.call(data) === '[object ArrayBuffer]') {
    strm.input = new Uint8Array(data);
} else {
    strm.input = data;
}

strm.next_in = 0;
strm.avail_in = strm.input.length;

do {
    if (strm.avail_out === 0) {
        strm.output = new utils.Buf8(chunkSize);
        strm.next_out = 0;
        strm.avail_out = chunkSize;
    }

    status = zlib_inflate.inflate(strm, c.Z_NO_FLUSH);    /* no bad return value */

    if (status !== c.Z_STREAM_END && status !== c.Z_OK) {
        if (status === c.Z_NEED_DICT && dictionary) {
            // Convert data if needed
            if (typeof dictionary === 'string') {
                dict = strings.string2buf(dictionary);
            } else if (toString.call(dictionary) === '[object ArrayBuffer]') {
                dict = new Uint8Array(dictionary);
            } else {
                dict = dictionary;
            }

            status = zlib_inflate.inflateSetDictionary(this.strm, dict);
        }
    }
}

if (status === c.Z_STREAM_END) {
    this.onEnd(status);
    this.ended = true;
    return false;
}

if (strm.next_out) {
    if (strm.avail_out === 0 || status === c.Z_STREAM_END || (strm.avail_in === 0 && (_mode === c.Z_FINISH
```
|| _mode === c.Z_SYNC_FLUSH))} {

    if (this.options.to === 'string') {

        next_out_utf8 = strings.utf8border(strm.output, strm.next_out);

        tail = strm.next_out - next_out_utf8;
        utf8str = strings.buf2string(strm.output, next_out_utf8);

        // move tail
        strm.next_out = tail;
        strm.avail_out = chunkSize - tail;
        if (tail) { utils.arraySet(strm.output, strm.output, next_out_utf8, tail, 0); }

        this.onData(utf8str);
    } else {
        this.onData(utils.shrinkBuf(strm.output, strm.next_out));
    }
}

// When no more input data, we should check that internal inflate buffers
// are flushed. The only way to do it when avail_out = 0 - run one more
// inflate pass. But if output data not exists, inflate return Z_BUF_ERROR.
// Here we set flag to process this error properly.

// NOTE. Deflate does not return error in this case and does not needs such
// logic.
if (strm.avail_in === 0 && strm.avail_out === 0) {
    allowBufError = true;
}

} while ((strm.avail_in > 0 || strm.avail_out === 0) && status !== c.Z_STREAM_END);

if (status === c.Z_STREAM_END) {
    _mode = c.Z_FINISH;
    status = zlib_inflate.inflateEnd(this.strm);
    this.onEnd(status);
    this.ended = true;
    return status === c.Z_OK;
}

// callback interim results if Z_SYNC_FLUSH.

// Finalize on the last chunk.
if (_mode === c.Z_FINISH) {
    status = zlib_inflate.inflateEnd(this.strm);
    this.onEnd(status);
    this.ended = true;
    return status === c.Z_OK;
}

// callback interim results if Z_SYNC_FLUSH.
if (_mode === c.Z_SYNC_FLUSH) {
    this.onEnd(c.Z_OK);
    strm.avail_out = 0;
    return true;
}

return true;
};

/**
 * Inflate#onData(chunk) -> Void
 * - chunk (Uint8Array|Array|String): output data. Type of array depends
 *   on js engine support. When string output requested, each chunk
 *   will be string.
 * - By default, stores data blocks in `chunks[]` property and glue
 *   those in `onEnd`. Override this handler, if you need another behaviour.
 */
Inflate.prototype.onData = function (chunk) {
    this.chunks.push(chunk);
};

/**
 * Inflate#onEnd(status) -> Void
 * - status (Number): inflate status. 0 (Z_OK) on success,
 *   other if not.
 * - Called either after you tell inflate that the input stream is
 *   complete (Z_FINISH) or should be flushed (Z_SYNC_FLUSH)
 *   or if an error happened. By default - join collected chunks,
 *   free memory and fill `results` / `err` properties.
 */
Inflate.prototype.onEnd = function (status) {
    // On success - join
    if (status === c.Z_OK) {
        if (this.options.to === 'string') {
            // Glue & convert here, until we teach pako to send
            // utf8 aligned strings to onData
            this.result = this.chunks.join('');
        } else {
            this.result = utils.flattenChunks(this.chunks);
        }
    } else {
        this.result = this.chunks = [];
        this.err = status;
        this.msg = this.strm.msg;
/**
 * inflate(data[, options]) -> Uint8Array|Array|String
 * - data (Uint8Array|Array|String): input data to decompress.
 * - options (Object): zlib inflate options.
 * * Decompress `data` with inflate/ungzip and `options`. Autodetect
 * format via wrapper header by default. That's why we don't provide
 * separate `ungzip` method.
 * * Supported options are:
 * * - windowBits
 * *
 * [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
 * for more information.
 * *
 * Sugar (options):
 * *
 * - `raw` (Boolean) - say that we work with raw stream, if you don't wish to specify
 * negative windowBits implicitly.
 * - `to` (String) - if equal to `string`, then result will be converted
 * from utf8 to utf16 (javascript) string. When string output requested,
 * chunk length can differ from `chunkSize`, depending on content.
 * *
 * ###### Example:
 * *
 * ```javascript
 * var pako = require('pako')
 *   , input = pako.deflate([1,2,3,4,5,6,7,8,9])
 *   , output;
 * *
 * try {
 *   output = pako.inflate(input);
 * } catch (err)
 * console.log(err);
 * }
 * ```
 */

function inflate(input, options) {
    var inflator = new Inflate(options);
    inflator.push(input, true);
    // That will never happens, if you don't cheat with options :)
if (inflator.err) { throw inflator.msg || msg[inflator.err]; }

return inflator.result;
}

/**
 * inflateRaw(data[, options]) -> Uint8Array|Array|String
 * - data (Uint8Array|Array|String): input data to decompress.
 * - options (Object): zlib inflate options.
 * * The same as [[inflate]], but creates raw data, without wrapper
 * * (header and adler32 crc).
 **/
function inflateRaw(input, options) {
  options = options || {};
  options.raw = true;
  return inflate(input, options);
}

/**
 * ungzip(data[, options]) -> Uint8Array|Array|String
 * - data (Uint8Array|Array|String): input data to decompress.
 * - options (Object): zlib inflate options.
 * *
 * * Just shortcut to [[inflate]], because it autodetects format
 * * by header.content. Done for convenience.
 **/

exports.Inflate = Inflate;
exports.inflate = inflate;
exports.inflateRaw = inflateRaw;
exports.ungzip = inflate;

},{"utilis/common":41,"utilis/strings":42, "%lib/constants":44,"//lib/gzheader":47,"//lib/inflate":49,"//lib/messages":51,"//lib/stream":53}],41:[function(require,module,exports){

'use strict';

var TYPED_OK = (typeof Uint8Array !== 'undefined') &&
  (typeof Uint16Array !== 'undefined') &&
  (typeof Int32Array !== 'undefined');

exports.assign = function (obj /*from1, from2, from3, ... */) {
  var sources = Array.prototype.slice.call(arguments, 1);

while (sources.length) {
    var source = sources.shift();
    if (!source) { continue; }

    if (typeof source !== 'object') {
        throw new TypeError(source + 'must be non-object');
    }

    for (var p in source) {
        if (source.hasOwnProperty(p)) {
            obj[p] = source[p];
        }
    }
}

return obj;
};

// reduce buffer size, avoiding mem copy
exports.shrinkBuf = function (buf, size) {
    if (buf.length === size) { return buf; }
    if (buf.subarray) { return buf.subarray(0, size); }
    buf.length = size;
    return buf;
};

var fnTyped = {
arraySet: function (dest, src, src_offs, len, dest_offs) {
    if (src.subarray && dest.subarray) {
        dest.set(src.subarray(src_offs, src_offs + len), dest_offs);
        return;
    }
    // Fallback to ordinary array
    for (var i = 0; i < len; i++) {
        dest[dest_offs + i] = src[src_offs + i];
    }
},
// Join array of chunks to single array.
flattenChunks: function (chunks) {
    var i, l, len, pos, chunk, result;

    // calculate data length
    len = 0;
    for (i = 0, l = chunks.length; i < l; i++) {
        len += chunks[i].length;
    }
// join chunks
result = new Uint8Array(len);
pos = 0;
for (i = 0, l = chunks.length; i < l; i++) {
    chunk = chunks[i];
    result.set(chunk, pos);
pos += chunk.length;
}

return result;
}

var fnUntyped = {
    arraySet: function (dest, src, src_offs, len, dest_offs) {
        for (var i = 0; i < len; i++) {
            dest[dest_offs + i] = src[src_offs + i];
        }
    },
    // Join array of chunks to single array.
    flattenChunks: function (chunks) {
        return [].concat.apply([], chunks);
    }
};

// Enable/Disable typed arrays use, for testing
//
exports.setTyped = function (on) {
    if (on) {
        exports.Buf8 = Uint8Array;
exports.Buf16 = Uint16Array;
exports.Buf32 = Int32Array;
exports.assign(exports, fnTyped);
    } else {
        exports.Buf8 = Array;
exports.Buf16 = Array;
exports.Buf32 = Array;
exports.assign(exports, fnUntyped);
    }
};
exports.setTyped(TYPED_OK);

// String encode/decode helpers
'use strict';
var utils = require('./common');

// Quick check if we can use fast array to bin string conversion
//
// - apply(Array) can fail on Android 2.2
// - apply(Uint8Array) can fail on iOS 5.1 Safari
//
var STR_APPLY_OK = true;
var STR_APPLY_UIA_OK = true;

try { String.fromCharCode.apply(null, [0]); } catch (__) { STR_APPLY_OK = false; }
try { String.fromCharCode.apply(null, new Uint8Array(1)); } catch (__) { STR_APPLY_UIA_OK = false; }

// Table with utf8 lengths (calculated by first byte of sequence)
// Note, that 5 & 6-byte values and some 4-byte values can not be represented in JS,
// because max possible codepoint is 0x10ffff
var _utf8len = new utils.Buf8(256);
for (var q = 0; q < 256; q++) {
}
_utf8len[254] = _utf8len[254] = 1; // Invalid sequence start

// convert string to array (typed, when possible)
exports.string2buf = function (str) {
    var buf, c, c2, m_pos, i, str_len = str.length, buf_len = 0;

    // count binary size
    for (m_pos = 0; m_pos < str_len; m_pos++) {
        c = str.charCodeAt(m_pos);
        if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
            c2 = str.charCodeAt(m_pos + 1);
            if ((c2 & 0xfc00) === 0xdc00) {
                c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
                m_pos++;
            }
        }
        buf_len += c < 0x80 ? 1 : c < 0x800 ? 2 : c < 0x10000 ? 3 : 4;
    }

    // allocate buffer
    buf = new utils.Buf8(buf_len);

    // convert
for (i = 0, m_pos = 0; i < buf_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
        c2 = str.charCodeAt(m_pos + 1);
        if ((c2 & 0xfc00) === 0xdc00) {
            c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
            m_pos++;
        }
    }
    if (c < 0x80) {
        /* one byte */
        buf[i++] = c;
    } else if (c < 0x800) {
        /* two bytes */
        buf[i++] = 0xC0 | (c >>> 6);
        buf[i++] = 0x80 | (c & 0x3f);
    } else if (c < 0x10000) {
        /* three bytes */
        buf[i++] = 0xE0 | (c >>> 12);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    } else {
        /* four bytes */
        buf[i++] = 0xf0 | (c >>> 18);
        buf[i++] = 0x80 | (c >>> 12 & 0x3f);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    }
}
return buf;

// Helper (used in 2 places)
function buf2binstring(buf, len) {
    // use fallback for big arrays to avoid stack overflow
    if (len < 65537) {
        if ((buf.subarray && STR_APPLY_UIA_OK) || (!buf.subarray && STR_APPLY_OK)) {
            return String.fromCharCode.apply(null, utils.shrinkBuf(buf, len));
        }
    }
    var result = ";
    for (var i = 0; i < len; i++) {
        result += String.fromCharCode(buf[i]);
    }
    return result;
}
// Convert byte array to binary string
exports.buf2binstring = function (buf) {
    return buf2binstring(buf, buf.length);
};

// Convert binary string (typed, when possible)
exports.binstring2buf = function (str) {
    var buf = new utils.Buf8(str.length);
    for (var i = 0, len = buf.length; i < len; i++) {
        buf[i] = str.charCodeAt(i);
    }
    return buf;
};

// convert array to string
exports.buf2string = function (buf, max) {
    var i, out, c, c_len;
    var len = max || buf.length;

    // Reserve max possible length (2 words per char)
    // NB: by unknown reasons, Array is significantly faster for
    //     String.fromCharCode.apply than Uint16Array.
    var utf16buf = new Array(len * 2);

    for (out = 0, i = 0; i < len;) {
        c = buf[i++];
        // quick process ascii
        if (c < 0x80) { utf16buf[out++] = c; continue; }
        c_len = _utf8len[c];
        // skip 5 & 6 byte codes
        if (c_len > 4) { utf16buf[out++] = 0xfffd; i += c_len - 1; continue; }
        // apply mask on first byte
        c &= c_len === 2 ? 0x1f : c_len === 3 ? 0x0f : 0x07;
        // join the rest
        while (c_len > 1 && i < len) {
            c = (c << 6) | (buf[i++] & 0x3f);
            c_len--;
        }
        // terminated by end of string?
        if (c_len > 1) { utf16buf[out++] = 0xfffd; continue; }
    }
if (c < 0x10000) {
    utf16buf[out++] = c;
} else {
    c -= 0x10000;
    utf16buf[out++] = 0xd800 | ((c >> 10) & 0x3ff);
    utf16buf[out++] = 0xdc00 | (c & 0x3ff);
}
}

return buf2binstring(utf16buf, out);

// Calculate max possible position in utf8 buffer,
// that will not break sequence. If that's not possible
// - (very small limits) return max size as is.
//
// buf[] - utf8 bytes array
// max   - length limit (mandatory);
exports.utf8border = function (buf, max) {
    var pos;

    max = max || buf.length;
    if (max > buf.length) { max = buf.length; }

    // go back from last position, until start of sequence found
    pos = max - 1;
    while (pos >= 0 && (buf[pos] & 0xC0) === 0x80) { pos--; }

    // Fuckup - very small and broken sequence,
    // return max, because we should return something anyway.
    if (pos < 0) { return max; }

    // If we came to start of buffer - that means buffer is too small,
    // return max too.
    if (pos === 0) { return max; }

    return (pos + _utf8len[buf[pos]] > max) ? pos : max;
};

"./common":41},43:[function(require,module,exports){
    'use strict';

    // Note: adler32 takes 12% for level 0 and 2% for level 6.
    // It doesn't worth to make additional optimization as in original.
    // Small size is preferable.

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function adler32(adler, buf, len, pos) {
    var s1 = (adler & 0xffff) | 0,
        s2 = ((adler >>> 16) & 0xffff) | 0,
        n = 0;

    while (len !== 0) {
        // Set limit ~ twice less than 5552, to keep
        // s2 in 31-bits, because we force signed ints.
        // in other case %= will fail.
        n = len > 2000 ? 2000 : len;
        len -= n;

        do {
            s1 = (s1 + buf[pos++]) | 0;
            s2 = (s2 + s1) | 0;
        } while (--n);

        s1 %= 65521;
        s2 %= 65521;
    }

    return (s1 | (s2 << 16)) | 0;
}

module.exports = adler32;
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module.exports = {

/* Allowed flush values; see deflate() and inflate() below for details */
Z_NO_FLUSH: 0,
Z_PARTIAL_FLUSH: 1,
Z_SYNC_FLUSH: 2,
Z_FULL_FLUSH: 3,
Z_FINISH: 4,
Z_BLOCK: 5,
Z_TREES: 6,

/* Return codes for the compression/decompression functions. Negative values
* are errors, positive values are used for special but normal events. */
Z_OK: 0,
Z_STREAM_END: 1,
Z_NEED_DICT: 2,
Z_ERRNO: -1,
Z_STREAM_ERROR: -2,
Z_DATA_ERROR: -3,
Z_MEM_ERROR: -4,
Z_BUF_ERROR: -5,
Z_VERSION_ERROR: -6,

/* compression levels */
Z_NO_COMPRESSION: 0,
Z_BEST_SPEED: 1,
Z_BEST_COMPRESSION: 9,
Z_DEFAULT_COMPRESSION: -1,
Z_FILTERED: 1,
Z_HUFFMAN_ONLY: 2,
Z_RLE: 3,
Z_FIXED: 4,
Z_DEFAULT_STRATEGY: 0,

/* Possible values of the data_type field (though see inflate()) */
Z_BINARY: 0,
Z_TEXT: 1,
//Z_ASCII: 1, // = Z_TEXT (deprecated)
Z_UNKNOWN: 2,

/* The deflate compression method */
Z_DEFLATED: 8
//Z_NULL: null // Use -1 or null inline, depending on var type
}

},{}

function(require,module,exports){
    'use strict';

    // Note: we can't get significant speed boost here.
    // So write code to minimize size - no pregenerated tables
    // and array tools dependencies.

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    // misrepresented as being the original software.
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    // Use ordinary array, since untyped makes no boost here
    function makeTable() {
        var c, table = [];

        },
for (var n = 0; n < 256; n++) {
    c = n;
    for (var k = 0; k < 8; k++) {
        c = ((c & 1) ? (0xEDB88320 ^ (c >>> 1)) : (c >>> 1));
    }
    table[n] = c;
}

return table;

var crcTable = makeTable();

function crc32(crc, buf, len, pos) {
    var t = crcTable,
        end = pos + len;

    crc ^= -1;

    for (var i = pos; i < end; i++) {
        crc = (crc >>> 8) ^ t[(crc ^ buf[i]) & 0xFF];
    }

    return (crc ^ (-1)); // >>> 0;
}

module.exports = crc32;

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//
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var utils = require('../utils/common');
var trees = require('./trees');
var adler32 = require('./adler32');
var crc32 = require('./crc32');
var msg = require('./messages');

/* Public constants =========================================================*/
/* ===========================================================================*/
/* Allowed flush values; see deflate() and inflate() below for details */
var Z_NO_FLUSH      = 0;
var Z_PARTIAL_FLUSH = 1;
var Z_SYNC_FLUSH    = 2;
var Z_FULL_FLUSH    = 3;
var Z_FINISH        = 4;
var Z_BLOCK         = 5;
var Z_TREES         = 6;

/* Return codes for the compression/decompression functions. Negative values
* are errors, positive values are used for special but normal events. */
var Z_OK            = 0;
var Z_STREAM_END    = 1;
var Z_NEED_DICT     = -2;
var Z_ERRNO         = -1;
var Z_STREAM_ERROR  = -2;
var Z_DATA_ERROR    = -3;
var Z_MEM_ERROR     = -4;
var Z_BUF_ERROR     = -5;
var Z_VERSION_ERROR = -6;

/* compression levels */
var Z_NO_COMPRESSION = 0;
var Z_BEST_SPEED    = 1;
var Z_BEST_COMPRESSION = 9;
var Z_DEFAULT_COMPRESSION = -1;

var Z_FILTERED = 1;
var Z_HUFFMAN_ONLY = 2;
var Z_RLE = 3;
var Z_FIXED = 4;
var Z_DEFAULT_STRATEGY = 0;

/* Possible values of the data_type field (though see inflate()) */
//var Z_BINARY = 0;
//var Z_TEXT = 1;
//var Z_ASCII = 1; // = Z_TEXT
var Z_UNKNOWN = 2;

/* The deflate compression method */
var Z_DEFLATED = 8;

/*============================================================================*/

var MAX_MEM_LEVEL = 9;
/* Maximum value for memLevel in deflateInit2 */
var MAX_WBITS = 15;
/* 32K LZ77 window */
var DEF_MEM_LEVEL = 8;

var LENGTH_CODES = 29;
/* number of length codes, not counting the special END_BLOCK code */
var LITERALS = 256;
/* number of literal bytes 0..255 */
var L_CODES = LITERALS + 1 + LENGTH_CODES;
/* number of Literal or Length codes, including the END_BLOCK code */
var D_CODES = 30;
/* number of distance codes */
var BL_CODES = 19;
/* number of codes used to transfer the bit lengths */
var HEAP_SIZE = 2 * L_CODES + 1;
/* maximum heap size */
var MAX_BITS = 15;
/* All codes must not exceed MAX_BITS bits */

var MIN_MATCH = 3;
var MAX_MATCH = 258;
var MIN_LOOKAHEAD = (MAX_MATCH + MIN_MATCH + 1);

var PRESET_DICT = 0x20;

var INIT_STATE = 42;
var EXTRA_STATE = 69;
var NAME_STATE = 73;
var COMMENT_STATE = 91;
var HCRC_STATE = 103;
var BUSY_STATE = 113;
var FINISH_STATE = 666;

var BS_NEED_MORE = 1; /* block not completed, need more input or more output */
var BS_BLOCK_DONE = 2; /* block flush performed */
var BS_FINISH_STARTED = 3; /* finish started, need only more output at next deflate */
var BS_FINISH_DONE = 4; /* finish done, accept no more input or output */

var OS_CODE = 0x03; // Unix :) . Don't detect, use this default.

function err(strm, errorCode) {
    strm.msg = msg[errorCode];
    return errorCode;
}

function rank(f) {
    return ((f) << 1) - ((f) > 4 ? 9 : 0);
}

function zero(buf) { var len = buf.length; while (--len >= 0) { buf[len] = 0; } }

/* =========================================================================
* Flush as much pending output as possible. All deflate() output goes
* through this function so some applications may wish to modify it
* to avoid allocating a large strm->output buffer and copying into it.
* (See also read_buf()).
*/
function flush_pending(strm) {
    var s = strm.state;

    //_tr_flush_bits(s);
    var len = s.pending;
    if (len > strm.avail_out) {
        len = strm.avail_out;
    }
    if (len === 0) { return; }
    utils.arraySet(strm.output, s.pending_buf, s.pending_out, len, strm.next_out);
    strm.next_out += len;
    s.pending_out += len;
    strm.total_out += len;
    strm.avail_out -= len;
    s.pending -= len;
    if (s.pending === 0) {
s.pending_out = 0;
}
}

function flush_block_only(s, last) {
  trees._tr_flush_block(s, (s.block_start >= 0 ? s.block_start : -1), s.strstart - s.block_start, last);
  s.block_start = s.strstart;
  flush_pending(s.strm);
}

function put_byte(s, b) {
  s.pending_buf[s.pending++] = b;
}

/* =========================================================================
 * Put a short in the pending buffer. The 16-bit value is put in MSB order.
 * IN assertion: the stream state is correct and there is enough room in
 * pending_buf.
 */
function putShortMSB(s, b) {
  //  put_byte(s, (Byte)(b >> 8));
  //  put_byte(s, (Byte)(b & 0xff));
  s.pending_buf[s.pending++] = (b >>> 8) & 0xff;
  s.pending_buf[s.pending++] = b & 0xff;
}

/* =========================================================================
 * Read a new buffer from the current input stream, update the adler32
 * and total number of bytes read. All deflate() input goes through
 * this function so some applications may wish to modify it to avoid
 * allocating a large strm->input buffer and copying from it.
 * (See also flushPending()).
 */
function read_buf(strm, buf, start, size) {
  var len = strm.avail_in;

  if (len > size) { len = size; }
  if (len === 0) { return 0; }

  strm.avail_in -= len;

  // zmemcpy(buf, strm->next_in, len);
  utils.arraySet(buf, strm.input, strm.next_in, len, start);
  if (strm.state.wrap === 1) {


strm.adler = adler32(strm.adler, buf, len, start);
}

else if (strm.state.wrap === 2) {
    strm.adler = crc32(strm.adler, buf, len, start);
}

strm.next_in += len;
strm.total_in += len;

return len;
}

/* ===========================================================================
* Set match_start to the longest match starting at the given string and
* return its length. Matches shorter or equal to prev_length are discarded,
* in which case the result is equal to prev_length and match_start is
* garbage.
* IN assertions: cur_match is the head of the hash chain for the current
* string (strstart) and its distance is <= MAX_DIST, and prev_length >= 1
* OUT assertion: the match length is not greater than s->lookahead.
*/
function longest_match(s, cur_match) {
    var chain_length = s.max_chain_length;      /* max hash chain length */
    var scan = s.strstart; /* current string */
    var match;                       /* matched string */
    var len;                           /* length of current match */
    var best_len = s.prev_length;              /* best match length so far */
    var nice_match = s.nice_match;             /* stop if match long enough */
    var limit = (s.strstart > (s.w_size - MIN_LOOKAHEAD)) ?
        s.strstart - (s.w_size - MIN_LOOKAHEAD) : 0/*NIL*/;
    var _win = s.window; // shortcut

    var wmask = s.w_mask;
    var prev  = s.prev;

    /* Stop when cur_match becomes <= limit. To simplify the code,
    * we prevent matches with the string of window index 0.
    */
    var strend = s.strstart + MAX_MATCH;
    var scan_end1 = _win[scan + best_len - 1];
    var scan_end   = _win[scan + best_len];

    /* The code is optimized for HASH_BITS >= 8 and MAX_MATCH-2 multiple of 16.
    * It is easy to get rid of this optimization if necessary.*/
// Assert(s->hash_bits >= 8 && MAX_MATCH == 258, "Code too clever");

/* Do not waste too much time if we already have a good match: */
if (s.prev_length >= s.good_match) {
    chain_length >>= 2;
}

/* Do not look for matches beyond the end of the input. This is necessary
   * to make deflate deterministic.
   */
if (nice_match > s.lookahead) { nice_match = s.lookahead; }

// Assert((ulg)s->strstart <= s->window_size-MIN_LOOKAHEAD, "need lookahead");

do {
    // Assert(cur_match < s->strstart, "no future");
    match = cur_match;

    /* Skip to next match if the match length cannot increase
       * or if the match length is less than 2. Note that the checks below
       * for insufficient lookahead only occur occasionally for performance
       * reasons. Therefore uninitialized memory will be accessed, and
       * conditional jumps will be made that depend on those values.
       * However the length of the match is limited to the lookahead, so
       * the output of deflate is not affected by the uninitialized values.
       */

    if (_win[match + best_len]     !== scan_end  ||
        _win[match + best_len - 1] !== scan_end1 ||
        _win[match]                !== _win[scan]  ||
        _win[++match]              !== _win[scan + 1]) { continue;
    }

    /* The check at best_len-1 can be removed because it will be made
       * again later. (This heuristic is not always a win.)
       * It is not necessary to compare scan[2] and match[2] since they
       * are always equal when the other bytes match, given that
       * the hash keys are equal and that HASH_BITS >= 8.
       */
    scan += 2;
    match++;
    // Assert(*scan == *match, "match[2]?");

    /* We check for insufficient lookahead only every 8th comparison;
       * the 256th check will be made at strstart+258.
       */
    do {
/*jshint noempty:false*/
   scan < strend);

// Assert(scan <= s->window+(unsigned)(s->window_size-1), "wild scan");

len = MAX_MATCH - (strend - scan);
scan = strend - MAX_MATCH;

if (len > best_len) {
    s.match_start = cur_match;
    best_len = len;
    if (len >= nice_match) {
        break;
    }
    scan_end1 = _win[scan + best_len - 1];
    scan_end = _win[scan + best_len];
}
} while ((cur_match = prev[cur_match & wmask]) > limit && --chain_length !== 0);

if (best_len <= s.lookahead) {
    return best_len;
}
return s.lookahead;

/*
 * Fill the window when the lookahead becomes insufficient.
 * Updates strstart and lookahead.
 *
 * IN assertion: lookahead < MIN_LOOKAHEAD
 * OUT assertions: strstart <= window_size-MIN_LOOKAHEAD
 * At least one byte has been read, or avail_in == 0; reads are
 * performed for at least two bytes (required for the zip translate_eol
 * option -- not supported here).
 */
function fill_window(s) {
    var _w_size = s.w_size;
    var p, n, m, more, str;

    //Assert(s->lookahead < MIN_LOOKAHEAD, "already enough lookahead");

    do {
        more = s.window_size - s.lookahead - s.strstart;

        if (more > 0) {
            p = s.strstart + more;
            n = _w_size - more;
            m = (n + p >>> 1); // round up
            s.strstart = p;
            s.lookahead = more;
            _win[p] = _win[m];
            scan = p;
            while (scan < n) {
                                _win[++match] && _win[++match] &&
                                _win[++match] && _win[++match] &&
                                _win[++match] && _win[++match] &&
                                scan < strend);

            // Assert(scan <= s->window+(unsigned)(s->window_size-1), "wild scan");

            len = MAX_MATCH - (strend - scan);
            scan = strend - MAX_MATCH;

            if (len > best_len) {
                s.match_start = cur_match;
                best_len = len;
                if (len >= nice_match) {
                    break;
                }
                scan_end1 = _win[scan + best_len - 1];
                scan_end = _win[scan + best_len];
            }
        } else {
            return;
        }
    }

    return;
}
// JS ints have 32 bit, block below not needed
/* Deal with !@#$% 64K limit: */
if (sizeof(int) <= 2) {
    // if (more == 0 && s->strstart == 0 && s->lookahead == 0) {
        more = wsize;
    //
    // } else if (more == (unsigned)(-1)) {
        /* Very unlikely, but possible on 16 bit machine if
           * strstart == 0 && lookahead == 1 (input done a byte at time)
           */
        more--;
    //
    // }
}

/* If the window is almost full and there is insufficient lookahead,
 * move the upper half to the lower one to make room in the upper half.
 */
if (s.strstart >= _w_size + (_w_size - MIN_LOOKAHEAD)) {
    utils.arraySet(s.window, s.window, _w_size, _w_size, 0);
    s.match_start -= _w_size;
    s.strstart -= _w_size;
    /* we now have strstart >= MAX_DIST */
    s.block_start -= _w_size;
}

/* Slide the hash table (could be avoided with 32 bit values
 at the expense of memory usage). We slide even when level == 0
 to keep the hash table consistent if we switch back to level > 0
 later. (Using level 0 permanently is not an optimal usage of
 zlib, so we don't care about this pathological case.) */

n = s.hash_size;
p = n;
do {
    m = s.head[--p];
    s.head[p] = (m >= _w_size ? m - _w_size : 0);
}while (--n);

n = _w_size;
p = n;
do {
    m = s.prev[--p];
    s.prev[p] = (m >= _w_size ? m - _w_size : 0);
/* If n is not on any hash chain, prev[n] is garbage but
 * its value will never be used.*/
/*
#else if MIN_MATCH != 3
// Call update_hash() MIN_MATCH-3 more times
#endif
while (s.insert) {
   /* UPDATE_HASH(s, s->ins_h, s->window[ str + MIN_MATCH-1 ]); */
   s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[ str + MIN_MATCH-1 ]) & s.hash_mask;
   s.prev[ str & s.w_mask] = s.head[ s.ins_h ];
   s.head[ s.ins_h ] = str;
   str++;
   s.insert--;
   if (s.lookahead + s.insert < MIN_MATCH) {
      break;
   }
}

/* If the whole input has less than MIN_MATCH bytes, ins_h is garbage,
* but this is not important since only literal bytes will be emitted.
*/

} while (s.lookahead < MIN_LOOKAHEAD && s.strm.avail_in !== 0);

/* If the WIN_INIT bytes after the end of the current data have never been
* written, then zero those bytes in order to avoid memory check reports of
* the use of uninitialized (or uninitialised as Julian writes) bytes by
* the longest match routines. Update the high water mark for the next
* time through here. WIN_INIT is set to MAX_MATCH since the longest match
* routines allow scanning to strstart + MAX_MATCH, ignoring lookahead.
*/

// if (s.high_water < s.window_size) {
  var curr = s.strstart + s.lookahead;
  var init = 0;

  if (s.high_water < curr) {
    /* Previous high water mark below current data -- zero WIN_INIT
     * bytes or up to end of window, whichever is less.
     */
    init = s.window_size - curr;
    if (init > WIN_INIT)
      init = WIN_INIT;
    zmemzero(s->window + curr, (unsigned)init);
    s->high_water = curr + init;
  }
  else if (s->high_water < (ulg)curr + WIN_INIT) {
    /* High water mark at or above current data, but below current data
     * plus WIN_INIT -- zero out to current data plus WIN_INIT, or up
     * to end of window, whichever is less.
     */
    init = (ulg)curr + WIN_INIT - s->high_water;
    if (init > s->window_size - s->high_water)
      init = s->window_size - s->high_water;
    zmemzero(s->window + s->high_water, (unsigned)init);
    s->high_water += init;
  }
  Assert((ulg)s->strstart <= s->window_size - MIN_LOOKAHEAD,
    "not enough room for search");
}

/* Copy without compression as much as possible from the input stream, return
* the current block state.
* This function does not insert new strings in the dictionary since
* uncompressible data is probably not useful. This function is used
*/
* only for the level=0 compression option.
* NOTE: this function should be optimized to avoid extra copying from
* window to pending_buf.
*/

function deflate_stored(s, flush) {
    /* Stored blocks are limited to 0xffff bytes, pending_buf is limited
     * to pending_buf_size, and each stored block has a 5 byte header:
     */
    var max_block_size = 0xffff;

    if (max_block_size > s.pending_buf_size - 5) {
        max_block_size = s.pending_buf_size - 5;
    }

    /* Copy as much as possible from input to output: */
    for (;;) {
        /* Fill the window as much as possible: */
        if (s.lookahead <= 1) {
            //Assert(s->strstart < s->w_size+MAX_DIST(s) ||
            // s->block_start >= (long)s->w_size, "slide too late");
            // if (!s.strstart < s.w_size + (s.w_size - MIN_LOOKAHEAD) ||
            // s.block_start >= s.w_size)) {
            // throw new Error("slide too late");
            // }

            fill_window(s);
            if (s.lookahead === 0 && flush === Z_NO_FLUSH) {
                return BS_NEED_MORE;
            }

            if (s.lookahead === 0) {
                break;
            }
        } /* flush the current block */
    }
    //Assert(s->block_start >= 0L, "block gone");
    // if (s.block_start < 0) throw new Error("block gone");

    s.strstart += s.lookahead;
    s.lookahead = 0;

    /* Emit a stored block if pending_buf will be full: */
    var max_start = s.block_start + max_block_size;

    if (s.strstart === 0 || s.strstart >= max_start) {
        /* strstart == 0 is possible when wraparound on 16-bit machine */
        s.lookahead = s.strstart - max_start;
s.strstart = max_start;
/** FLUSH_BLOCK(s, 0); **/
flush_block_only(s, false);
if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
}
/***/

/* Flush if we may have to slide, otherwise block_start may become
 * negative and the data will be gone:
 */
if (s.strstart - s.block_start >= (s.w_size - MIN_LOOKAHEAD)) {
    /** FLUSH_BLOCK(s, 0); **/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
    }
}

s.insert = 0;

if (flush === Z_FINISH) {
    /** FLUSH_BLOCK(s, 1); **/
    flush_block_only(s, true);
    if (s.strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
    /***/
    return BS_FINISH_DONE;
}

if (s.strstart > s.block_start) {
    /** FLUSH_BLOCK(s, 0); **/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
    }
}

return BS_NEED_MORE;

/*==================================================================*/
* Compress as much as possible from the input stream, return the current
* block state.
* This function does not perform lazy evaluation of matches and inserts
* new strings in the dictionary only for unmatched strings or for short
* matches. It is used only for the fast compression options.
*/

function deflate_fast(s, flush) {
    var hash_head;        /* head of the hash chain */
    var bflush;           /* set if current block must be flushed */
    for (;;) {
        /* Make sure that we always have enough lookahead, except
         * at the end of the input file. We need MAX_MATCH bytes
         * for the next match, plus MIN_MATCH bytes to insert the
         * string following the next match.
         */
        if (s.lookahead < MIN_LOOKAHEAD) {
            fill_window(s);
            if (s.lookahead < MIN_LOOKAHEAD && flush === Z_NO_FLUSH) {
                return BS_NEED_MORE;
            }
            if (s.lookahead === 0) {
                break; /* flush the current block */
            }
        }
        /* Insert the string window[strstart .. strstart+2] in the
         * dictionary, and set hash_head to the head of the hash chain:
         */
        hash_head = 0/*NIL*/;
        if (s.lookahead >= MIN_MATCH) {
            /* INSERT_STRING(s, s.strstart, hash_head); */
            s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
            hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
        }
        /* Find the longest match, discarding those <= prev_length.
         * At this point we have always match_length < MIN_MATCH
         */
        if (hash_head !== 0/*NIL*/ && ((s.strstart - hash_head) <= (s.w_size - MIN_LOOKAHEAD))) {
            /* To simplify the code, we prevent matches with the string
             * of window index 0 (in particular we have to avoid a match
             * of the string with itself at the start of the input file).
             */
            s.match_length = longest_match(s, hash_head);
            /* longest_match() sets match_start */
if (s.match_length >= MIN_MATCH) {
    // check_match(s, s.strstart, s.match_start, s.match_length); // for debug only
    
    /*** _tr_tally_dist(s, s.strstart - s.match_start, s.match_length - MIN_MATCH, bflush); /***/
    bflush = trees._tr_tally(s, s.strstart - s.match_start, s.match_length - MIN_MATCH);
    
    s.lookahead -= s.match_length;
    
    /* Insert new strings in the hash table only if the match length */
    * is not too large. This saves time but degrades compression.
    */
    if (s.match_length <= s.max_lazy_match/*max_insert_length*/ && s.lookahead >= MIN_MATCH) {
        s.match_length--; /* string at strstart already in table */
        do {
            s.strstart++;
            /*** INSERT_STRING(s, s.strstart, hash_head); /***/
            s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
            hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
            s.head[s.ins_h] = s.strstart;
            /***/
            /* strstart never exceeds WSIZE-MAX_MATCH, so there are */
            * always MIN_MATCH bytes ahead.
            */
            } while (--s.match_length !== 0);
        s.strstart++;
    } else {
        
        s.strstart += s.match_length;
        s.match_length = 0;
        s.ins_h = s.window[s.strstart];
        /* UPDATE_HASH(s, s.ins_h, s.window[s.strstart+1]); */
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + 1]) & s.hash_mask;
    }
}

//if MIN_MATCH != 3
// Call UPDATE_HASH() MIN_MATCH-3 more times
//#endif

/* If lookahead < MIN_MATCH, ins_h is garbage, but it does not */
* matter since it will be recomputed at next deflate call.
*/
}

} else {
    /* No match, output a literal byte */
    //Tracevv(stderr,\"%c\", s.window[s.strstart]);
    /*** _tr_tally_lit(s, s.window[s.strstart], bflush); /***/
    bflush = trees._tr_tally(s, 0, s.window[s.strstart]);
s.lookahead--;  
s.strstart++;  
}  
if (bflush) {  
    /**************** FLUSH_BLOCK(s, 0); ********************/
    flush_block_only(s, false);  
    if (s.strm.avail_out === 0) {  
        return BS_NEED_MORE;  
    }  
    /*************************/  
}  

s.insert = ((s.strstart < (MIN_MATCH - 1)) ? s.strstart : MIN_MATCH - 1);  
if (flush === Z_FINISH) {  
    /**************** FLUSH_BLOCK(s, 1); ********************/
    flush_block_only(s, true);  
    if (s.strm.avail_out === 0) {  
        return BS_FINISH_STARTED;  
    }  
    /*************************/  
    return BS_FINISH_DONE;  
}  
if (s.last_lit) {  
    /**************** FLUSH_BLOCK(s, 0); ********************/
    flush_block_only(s, false);  
    if (s.strm.avail_out === 0) {  
        return BS_NEED_MORE;  
    }  
    /*************************/  
    return BS_BLOCK_DONE;  
}  

/* ===========================================================================  
* Same as above, but achieves better compression. We use a lazy  
* evaluation for matches: a match is finally adopted only if there is  
* no better match at the next window position.  
*/  
function deflate_slow(s, flush) {  
    var hash_head;          /* head of hash chain */  
    var bflush;              /* set if current block must be flushed */  
    var max_insert;          

    /* Process the input block. */  
    for (;;) {  
        /* Make sure that we always have enough lookahead, except  
        * at the end of the input file. We need MAX_MATCH bytes  
        */  
        if (}  
    }  
    }  
  
  }  
}  

/* ===========================================================================  
* Same as above, but achieves better compression. We use a lazy  
* evaluation for matches: a match is finally adopted only if there is  
* no better match at the next window position.  
*/  
function deflate_slow(s, flush) {  
    var hash_head;          /* head of hash chain */  
    var bflush;              /* set if current block must be flushed */  
    var max_insert;          

    /* Process the input block. */  
    for (;;) {  
        /* Make sure that we always have enough lookahead, except  
        * at the end of the input file. We need MAX_MATCH bytes  
        */  
        if (}  
    }  
  
  }  
}
* for the next match, plus MIN_MATCH bytes to insert the
* string following the next match.
*/
if (s.lookahead < MIN_LOOKAHEAD) {
  fill_window(s);
  if (s.lookahead < MIN_LOOKAHEAD && flush == Z_NO_FLUSH) {
    return BS_NEED_MORE;
  }
  if (s.lookahead == 0) { break; } /* flush the current block */
}

/* Insert the string window[strstart .. strstart+2] in the
* dictionary, and set hash_head to the head of the hash chain:
*/
hash_head = 0/*NIL*/;
if (s.lookahead >= MIN_MATCH) {
  /*** INSERT_STRING(s, s.strstart, hash_head); /***
  s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
  hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
  s.head[s.ins_h] = s.strstart;
  /***/
}

/* Find the longest match, discarding those <= prev_length.
*/
s.prev_length = s.match_length;
s.prev_match = s.match_start;
s.match_length = MIN_MATCH - 1;

if (hash_head != 0/*NIL*/ && s.prev_length < s.max_lazy_match &&
    s.strstart - hash_head <= (s.w_size - MIN_LOOKAHEAD)/MAX_DIST(s)/*MAX_DIST(s)*/) {
  /* To simplify the code, we prevent matches with the string
   * of window index 0 (in particular we have to avoid a match
   * of the string with itself at the start of the input file).
   */
  s.match_length = longest_match(s, hash_head);
  /* longest_match() sets match_start */

  if (s.match_length <= 5 &&
      (s.strategy == Z_FILTERED || (s.match_length == MIN_MATCH && s.strstart - s.match_start >
        4096/*TOO_FAR*/))) {
    /* If prev_match is also MIN_MATCH, match_start is garbage
     * but we will ignore the current match anyway.
     */
    s.match_length = MIN_MATCH - 1;
  }
}
/* If there was a match at the previous step and the current match is not better, output the previous match: */
if (s.prev_length >= MIN_MATCH && s.match_length <= s.prev_length) {
    max_insert = s.strstart + s.lookahead - MIN_MATCH;
    /* Do not insert strings in hash table beyond this. */

    //check_match(s, s.strstart-1, s.prev_match, s.prev_length);

    /***_tr_tally_dist(s, s.strstart - 1 - s.prev_match, s.prev_length - MIN_MATCH, bflush);***/
bflush = trees._tr_tally(s, s.strstart - 1 - s.prev_match, s.prev_length - MIN_MATCH);
    /* Insert in hash table all strings up to the end of the match.
    * strstart-1 and strstart are already inserted. If there is not
    * enough lookahead, the last two strings are not inserted in
    * the hash table.
    */
    s.lookahead -= s.prev_length - 1;
    s.prev_length -= 2;
    do {
        if (++s.strstart <= max_insert) {
            /** INSERT_STRING(s, s.strstart, hash_head); ***/
            s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
            hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
            s.head[s.ins_h] = s.strstart;
            /***/
        }
    } while (--s.prev_length !== 0);
    s.match_available = 0;
    s.match_length = MIN_MATCH - 1;
    s.strstart++;

    if (bflush) {
        /** FLUSH_BLOCK(s, 0); ***/
        flush_block_only(s, false);
        if (s.strm.avail_out === 0) {
            return BS_NEED_MORE;
        }
    }/***/
}
bflush = trees._tr_tally(s, 0, s.window[s.strstart - 1]);

if (bflush) {
    /** FLUSH_BLOCK_ONLY(s, 0) **/
    flush_block_only(s, false);
    /**/
    s.strstart++;
    s.lookahead--;
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
} else {
    /* There is no previous match to compare with, wait for
     * the next step to decide.
     */
    s.match_available = 1;
    s.strstart++;
    s.lookahead--;
}

//Assert (flush != Z_NO_FLUSH, "no flush?");
if (s.match_available) {
    //Tracevv((stderr,", s->window[s->strstart-1]));
    /** tr_tally_lit(s, s.window[s.strstart-1], bflush); */
    bflush = trees._tr_tally(s, 0, s.window[s.strstart - 1]);
    s.match_available = 0;
}

if (s.insert = s.strstart < MIN_MATCH - 1 ? s.strstart : MIN_MATCH - 1;
if (flush === Z_FINISH) {
    /** FLUSH_BLOCK(s, 1); */
    flush_block_only(s, true);
    if (s.strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
    /**/
    return BS_FINISH_DONE;
} /*assert (flush != Z_FINISH, "no flush?");
if (s.match_available) {
    //Tracevv((stderr,", s->window[s->strstart-1]));
    /** tr_tally_lit(s, s.window[s.strstart-1], bflush); */
    bflush = trees._tr_tally(s, 0, s.window[s.strstart - 1]);
    s.match_available = 0;
}

s.insert = s.strstart < MIN_MATCH - 1 ? s.strstart : MIN_MATCH - 1;
if (flush === Z_FINISH) {
    /** FLUSH_BLOCK(s, 1); */
    flush_block_only(s, true);
    if (s.strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
    /**/
    return BS_FINISH_DONE;
}

if (s.last_lit) {
    /** FLUSH_BLOCK(s, 0); */
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /**/
return BS_BLOCK_DONE;
}

/* ===========================================================================
* For Z_RLE, simply look for runs of bytes, generate matches only of distance
* one. Do not maintain a hash table. (It will be regenerated if this run of
* deflate switches away from Z_RLE.) */

function deflate_rle(s, flush) {
var bflush; /* set if current block must be flushed */
var prev;  /* byte at distance one to match */
var scan, strend; /* scan goes up to strend for length of run */

var _win = s.window;

for (;;) {
    /* Make sure that we always have enough lookahead, except
    * at the end of the input file. We need MAX_MATCH bytes
    * for the longest run, plus one for the unrolled loop.
    */
    if (s.lookahead <= MAX_MATCH) {
        fill_window(s);
        if (s.lookahead <= MAX_MATCH && flush === Z_NO_FLUSH) {
            return BS_NEED_MORE;
        }
        if (s.lookahead === 0) { break; } /* flush the current block */
    }

    /* See how many times the previous byte repeats */
    s.match_length = 0;
    if (s.lookahead >= MIN_MATCH && s.strstart > 0) {
        scan = s.strstart - 1;
        prev = _win[scan];
        if (prev === _win[++scan] & prev === _win[++scan] & prev === _win[++scan]) {
            strend = s.strstart + MAX_MATCH;
            do {
                /*jshint noempty:false*/
                } while (prev === _win[++scan] & prev === _win[++scan] &
                       prev === _win[++scan] & prev === _win[++scan] &
                       prev === _win[++scan] & prev === _win[++scan] &
                       prev === _win[++scan] &
                       scan < strend);
            s.match_length = MAX_MATCH - (strend - scan);
            if (s.match_length > s.lookahead) {
                s.match_length = s.lookahead;
            }
        }
}
//Assert(scan <= s->window+(uInt)(s->window_size-1), "wild scan");
}

/* Emit match if have run of MIN_MATCH or longer, else emit literal */
if (s.match_length >= MIN_MATCH) {
    //check_match(s, s.strstart, s.strstart - 1, s.match_length);

    /**/ _tr_tally_dist(s, 1, s.match_length - MIN_MATCH, bflush); /**/ bflush = trees._tr_tally(s, 1, s.match_length - MIN_MATCH);

    s.lookahead -= s.match_length;
    s.strstart += s.match_length;
    s.match_length = 0;
} else {
    /* No match, output a literal byte */
    //Tracevv((stderr,%c", s->window[s->strstart]);
    /**/ _tr_tally_lit(s, s.window[s.strstart], bflush); /**/ bflush = trees._tr_tally(s, 0, s.window[s.strstart]);

    s.lookahead--;
    s.strstart++;

} if (bflush) {
    /**/ FLUSH_BLOCK(s, 0); /**/ flush_block_only(s, false);
    if (s.strm.avail_out == 0) {
        return BS_NEED_MORE;
    }
    /**/ }
}

s.insert = 0;
if (flush == Z_FINISH) {
    /**/ FLUSH_BLOCK(s, 1); /**/ flush_block_only(s, true);
    if (s.strm.avail_out == 0) {
        return BS_FINISH_STARTED;
    }
    /**/ }

    return BS_FINISH_DONE;
}

if (s.last_lit) {
    /**/ FLUSH_BLOCK(s, 0); /**/ flush_block_only(s, false);
    if (s.strm.avail_out == 0) {
        return BS_NEED_MORE;
    }
    /**/ }
for (;;) {
    /* Make sure that we have a literal to write. */
    if (s.lookahead === 0) {
        fill_window(s);
        if (s.lookahead === 0) {
            if (flush === Z_NO_FLUSH) {
                return BS_NEED_MORE;
            }
            break;  /* flush the current block */
        }
    }
}

/* Output a literal byte */
s.match_length = 0;
//Tracevv((stderr,"%c", s->window[s->strstart]));
/*** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
bflush = trees._tr_tally(s, 0, s.window[s.strstart]);
if (bflush) {
   /*** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}
}

s.insert = 0;
if (flush === Z_FINISH) {
   /*** FLUSH_BLOCK(s, 1); ***/
    flush_block_only(s, true);
    if (s.strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
    /***/
}
return BS_FINISH_DONE;

```javascript
if (s.last_lit) {
    /** FLUSH_BLOCK(s, 0); /**/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /**/
}
return BS_BLOCK_DONE;

/**
* Values for max_lazy_match, good_match and max_chain_length, depending on
* the desired pack level (0..9). The values given below have been tuned to
* exclude worst case performance for pathological files. Better values may be
* found for specific files.
*/
function Config(good_length, max_lazy, nice_length, max_chain, func) {
    this.good_length = good_length;
    this.max_lazy = max_lazy;
    this.nice_length = nice_length;
    this.max_chain = max_chain;
    this.func = func;
}

var configuration_table;
configuration_table = [
    new Config(0, 0, 0, 0, deflate_stored), /* 0 store only */
    new Config(4, 4, 4, 4, deflate_fast),   /* 1 max speed, no lazy matches */
    new Config(4, 5, 16, 8, deflate_fast),  /* 2 */
    new Config(4, 6, 32, 32, deflate_fast), /* 3 */
    new Config(4, 4, 16, 16, deflate_slow), /* 4 lazy matches */
    new Config(8, 16, 32, 32, deflate_slow), /* 5 */
    new Config(8, 16, 128, 128, deflate_slow), /* 6 */
    new Config(8, 32, 256, 256, deflate_slow), /* 7 */
    new Config(32, 258, 258, 4096, deflate_slow) /* 8 */
];

function lm_init(s) {
    s.window_size = 2 * s.w_size;
}

/* Initialize the "longest match" routines for a new zlib stream */
*/
```
```javascript
/** CLEAR_HASH(s); ***/
zero(s.head);  // Fill with NIL (= 0);

/* Set the default configuration parameters: */
s.max_lazy_match = configuration_table[s.level].max_lazy;
s.good_match = configuration_table[s.level].good_length;
s.nice_match = configuration_table[s.level].nice_length;
s.max_chain_length = configuration_table[s.level].max_chain;

s.strstart = 0;
s.block_start = 0;
s.lookahead = 0;
s.insert = 0;
s.match_length = s.prev_length = MIN_MATCH - 1;
s.match_available = 0;
s.ins_h = 0;
}

function DeflateState() {
  this.strm = null;  /* pointer back to this zlib stream */
  this.status = 0;  /* as the name implies */
  this.pending_buf = null;  /* output still pending */
  this.pending_buf_size = 0;  /* size of pending_buf */
  this.pending_out = 0;  /* next pending byte to output to the stream */
  this.pending = 0;  /* nb of bytes in the pending buffer */
  this.wrap = 0;  /* bit 0 true for zlib, bit 1 true for gzip */
  this.gzhead = null;  /* gzip header information to write */
  this.gzindex = 0;  /* where in extra, name, or comment */
  this.method = Z_DEFLATED;  /* can only be DEFLATED */
  this.last_flush = -1;  /* value of flush param for previous deflate call */
  this.w_size = 0;  /* LZ77 window size (32K by default) */
  this.w_bits = 0;  /* log2(w_size) (8..16) */
  this.w_mask = 0;  /* w_size - 1 */

  this.window = null;
  /* Sliding window. Input bytes are read into the second half of the window,
   * and move to the first half later to keep a dictionary of at least wSize
   * bytes. With this organization, matches are limited to a distance of
   * wSize-MAX_MATCH bytes, but this ensures that IO is always
   * performed with a length multiple of the block size.
   */

  this.window_size = 0;
  /* Actual size of window: 2*wSize, except when the user input buffer
   * is smaller. */
```

* is directly used as sliding window.
*/

this.prev = null;
/* Link to older string with same hash index. To limit the size of this
* array to 64K, this link is maintained only for the last 32K strings.
* An index in this array is thus a window index modulo 32K.
*/

this.head = null; /* Heads of the hash chains or NIL. */

this.ins_h = 0; /* hash index of string to be inserted */
this.hash_size = 0; /* number of elements in hash table */
this.hash_bits = 0; /* log2(hash_size) */
this.hash_mask = 0; /* hash_size-1 */
this.hash_shift = 0;
/* Number of bits by which ins_h must be shifted at each input
* step. It must be such that after MIN_MATCH steps, the oldest
* byte no longer takes part in the hash key, that is:
* hash_shift * MIN_MATCH >= hash_bits
*/

this.block_start = 0;
/* Window position at the beginning of the current output block. Gets
* negative when the window is moved backwards.
*/

this.match_length = 0; /* length of best match */
this.prev_match = 0; /* previous match */
this.match_available = 0; /* set if previous match exists */
this.strstart = 0; /* start of string to insert */
this.match_start = 0; /* start of matching string */
this.lookahead = 0; /* number of valid bytes ahead in window */

this.prev_length = 0;
/* Length of the best match at previous step. Matches not greater than this
* are discarded. This is used in the lazy match evaluation.
*/

this.max_chain_length = 0;
/* To speed up deflation, hash chains are never searched beyond this
* length. A higher limit improves compression ratio but degrades the
* speed.
*/

this.max_lazy_match = 0;
/* Attempt to find a better match only when the current match is strictly
* smaller than this value. This mechanism is used only for compression
* levels >= 4.
*/

// That's alias to max_lazy_match, don't use directly
//this.max_insert_length = 0;
/* Insert new strings in the hash table only if the match length is not
* greater than this length. This saves time but degrades compression.
* max_insert_length is used only for compression levels <= 3.
*/

this.level = 0; /* compression level (1..9) */
this.strategy = 0; /* favor or force Huffman coding */

this.good_match = 0;
/* Use a faster search when the previous match is longer than this */

this.nice_match = 0; /* Stop searching when current match exceeds this */

/* used by trees.c: */

/* Didn't use ct_data typedef below to suppress compiler warning */

// struct ct_data_s dyn_ltree[HEAP_SIZE]; /* literal and length tree */
// struct ct_data_s dyn_dtree[2*D_CODES+1]; /* distance tree */
// struct ct_data_s bl_tree[2*BL_CODES+1]; /* Huffman tree for bit lengths */

// Use flat array of DOUBLE size, with interleaved fata,
// because JS does not support effective
this.dyn_ltree = new utils.Buf16(HEAP_SIZE * 2);
this.dyn_dtree = new utils.Buf16((2 * D_CODES + 1) * 2);
this.bl_tree = new utils.Buf16((2 * BL_CODES + 1) * 2);
zero(this.dyn_ltree);
zero(this.dyn_dtree);
zero(this.bl_tree);

this.l_desc = null; /* desc. for literal tree */
this.d_desc = null; /* desc. for distance tree */
this.bl_desc = null; /* desc. for bit length tree */

//ush bl_count[MAX_BITS+1];
this.bl_count = new utils.Buf16(MAX_BITS + 1);
/* number of codes at each bit length for an optimal tree */

//int heap[2*L_CODES+1]; /* heap used to build the Huffman trees */
this.heap = new utils.Buf16(2 * L_CODES + 1); /* heap used to build the Huffman trees */
zero(this.heap);

this.heap_len = 0; /* number of elements in the heap */
this.heap_max = 0; /* element of largest frequency */
/* The sons of heap[n] are heap[2*n] and heap[2*n+1]. heap[0] is not used.
 * The same heap array is used to build all trees.
 */

this.depth = new utils.Buf16(2 * L_CODES + 1); //uch depth[2*L_CODES+1];
zero(this.depth);
/* Depth of each subtree used as tie breaker for trees of equal frequency */

this.l_buf = 0; /* buffer index for literals or lengths */

this.lit_bufsize = 0;
/* Size of match buffer for literals/lengths. There are 4 reasons for
 * limiting lit_bufsize to 64K:
 * - frequencies can be kept in 16 bit counters
 * - if compression is not successful for the first block, all input
 *   data is still in the window so we can still emit a stored block even
 *   when input comes from standard input. (This can also be done for
 *   all blocks if lit_bufsize is not greater than 32K.)
 * - if compression is not successful for a file smaller than 64K, we can
 *   even emit a stored file instead of a stored block (saving 5 bytes).
 *   This is applicable only for zip (not gzip or zlib).
 * - creating new Huffman trees less frequently may not provide fast
 *   adaptation to changes in the input data statistics. (Take for
 *   example a binary file with poorly compressible code followed by
 *   a highly compressible string table.) Smaller buffer sizes give
 *   fast adaptation but have of course the overhead of transmitting
 *   trees more frequently.
 * - I can’t count above 4
 */

this.last_lit = 0; /* running index in l_buf */

this.d_buf = 0;
/* Buffer index for distances. To simplify the code, d_buf and l_buf have
 * the same number of elements. To use different lengths, an extra flag
 * array would be necessary.
 */

this.opt_len = 0; /* bit length of current block with optimal trees */
this.static_len = 0; /* bit length of current block with static trees */
this.matches = 0; /* number of string matches in current block */
this.insert = 0; /* bytes at end of window left to insert */

this.bi_buf = 0;
/* Output buffer. bits are inserted starting at the bottom (least
* significant bits).
*/
this.bi_valid = 0;
/* Number of valid bits in bi_buf. All bits above the last valid bit
* are always zero.
*/

// Used for window memory init. We safely ignore it for JS. That makes
// sense only for pointers and memory check tools.
//this.high_water = 0;
/* High water mark offset in window for initialized bytes -- bytes above
* this are set to zero in order to avoid memory check warnings when
* longest match routines access bytes past the input. This is then
* updated to the new high water mark.
*/
}

function deflateResetKeep(strm) {
var s;

if (!strm || !strm.state) {
  return err(strm, Z_STREAM_ERROR);
}

strm.total_in = strm.total_out = 0;
strm.data_type = Z_UNKNOWN;

s = strm.state;
s.pending = 0;
s.pending_out = 0;

if (s.wrap < 0) {
  s.wrap = -s.wrap;
  /* was made negative by deflate(..., Z_FINISH); */
}

s.status = (s.wrap ? INIT_STATE : BUSY_STATE);
strm.adler = (s.wrap === 2) ?
  0 // crc32(0, Z_NULL, 0)
: 1; // adler32(0, Z_NULL, 0)
s.last_flush = Z_NO_FLUSH;
trees._tr_init(s);
return Z_OK;
}

function deflateReset(strm) {
var ret = deflateResetKeep(strm);
if (ret === Z_OK) {
    lm_init(strm.state);
} return ret;
}

function deflateSetHeader(strm, head) {
if (!strm || !strm.state) { return Z_STREAM_ERROR; }
if (strm.state.wrap !== 2) { return Z_STREAM_ERROR; }
strm.state.gzhead = head;
return Z_OK;
}

function deflateInit2(strm, level, method, windowBits, memLevel, strategy) {
if (!strm) { // !== Z_NULL
    return Z_STREAM_ERROR;
}
var wrap = 1;

if (level === Z_DEFAULT_COMPRESSION) {
    level = 6;
}

if (windowBits < 0) { /* suppress zlib wrapper */
    wrap = 0;
    windowBits = -windowBits;
}
else if (windowBits > 15) {
    wrap = 2; /* write gzip wrapper instead */
    windowBits -= 16;
}

if (memLevel < 1 || memLevel > MAX_MEM_LEVEL || method !== Z_DEFLATED ||
    windowBits < 8 || windowBits > 15 || level < 0 || level > 9 ||
    strategy < 0 || strategy > Z_FIXED) {
    return err(strm, Z_STREAM_ERROR);
}

if (windowBits === 8) {
    windowBits = 9;
} /* until 256-byte window bug fixed */
var s = new DeflateState();

strm.state = s;
s.strm = strm;

s.wrap = wrap;
s.gzhead = null;
s.w_bits = windowBits;
s.w_size = 1 << s.w_bits;
s.w_mask = s.w_size - 1;

s.hash_bits = memLevel + 7;
s.hash_size = 1 << s.hash_bits;
s.hash_mask = s.hash_size - 1;
s.hash_shift = ~~((s.hash_bits + MIN_MATCH - 1) / MIN_MATCH);

s.window = new utils.Buf8(s.w_size * 2);
s.head = new utils.Buf16(s.hash_size);
s.prev = new utils.Buf16(s.w_size);

// Don't need mem init magic for JS.
//s.high_water = 0; /* nothing written to s->window yet */

s.lit_bufsize = 1 << (memLevel + 6); /* 16K elements by default */
s.pending_buf_size = s.lit_bufsize * 4;

//overlay = (ushf *) ZALLOC(strm, s->lit_bufsize, sizeof(ush)+2);
//s->pending_buf = (uchf *) overlay;
s.pending_buf = new utils.Buf8(s.pending_buf_size);

// It is offset from `s.pending_buf` (size is `s.lit_bufsize * 2`)  
//s->d_buf = overlay + s->lit_bufsize/sizeof(ush);
s.d_buf = 1 * s.lit_bufsize;

//s->l_buf = s->pending_buf + (1+sizeof(ush))*s->lit_bufsize;
s.l_buf = (1 + 2) * s.lit_bufsize;

s.level = level;
s.strategy = strategy;
s.method = method;

return deflateReset(strm);
}

function deflateInit(strm, level) {
return deflateInit2(strm, level, Z_DEFLATED, MAX_WBITS, DEF_MEM_LEVEL, Z_DEFAULT_STRATEGY);
function deflate(strm, flush) {
    var old_flush, s;
    var beg, val; // for gzip header write only

    if (!strm || !strm.state ||
        flush > Z_BLOCK || flush < 0) {
        return strm ? err(strm, Z_STREAM_ERROR) : Z_STREAM_ERROR;
    }

    s = strm.state;

    if (!strm.output ||
        (!strm.input && strm.avail_in !== 0) ||
        (s.status === FINISH_STATE && flush !== Z_FINISH)) {
        return err(strm, (strm.avail_out === 0) ? Z_BUF_ERROR : Z_STREAM_ERROR);
    }

    s.strm = strm; /* just in case */
    old_flush = s.last_flush;
    s.last_flush = flush;

    /* Write the header */
    if (s.status === INIT_STATE) {
        if (s.wrap === 2) { // GZIP header
            strm.adler = 0; //crc32(0L, Z_NULL, 0);
            put_byte(s, 31);
            put_byte(s, 139);
            put_byte(s, 8);
            if (!s.gzhead) { // s->gzhead == Z_NULL
                put_byte(s, 0);
                put_byte(s, 0);
                put_byte(s, 0);
                put_byte(s, 0);
                put_byte(s, 0);
                put_byte(s, s.level === 9 ? 2 :
                    (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2 ? 4 : 0));
                put_byte(s, OS_CODE);
                s.status = BUSY_STATE;
            } else {
                put_byte(s, (s.gzhead.text ? 1 : 0) +
                    (s.gzhead.hcrc ? 2 : 0) +
                    (!s.gzhead.extra ? 0 : 4) +
                    (s.gzhead.level ? 5 : 0));
            }
        }
        else {
            put_byte(s, (s.gzhead.text ? 1 : 0) +
                (s.gzhead.hcrc ? 2 : 0) +
                (!s.gzhead.extra ? 0 : 4) +
                (s.gzhead.level ? 5 : 0));
        }
    }
}
(!s.gzhead.name ? 0 : 8) +
(!s.gzhead.comment ? 0 : 16)
);
put_byte(s, s.gzhead.time & 0xff);
put_byte(s, (s.gzhead.time >> 8) & 0xff);
put_byte(s, (s.gzhead.time >> 16) & 0xff);
put_byte(s, (s.gzhead.time >> 24) & 0xff);
put_byte(s, s.level === 9 ? 2 :
  (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2 ?
    4 : 0));
put_byte(s, s.gzhead.os & 0xff);
if (s.gzhead.extra && s.gzhead.extra.length) {
  put_byte(s, s.gzhead.extra.length & 0xff);
  put_byte(s, (s.gzhead.extra.length >> 8) & 0xff);
}
if (s.gzhead.hcrc) {
  strm.adler = crc32(strm.adler, s.pending_buf, s.pending, 0);
}
s.gzindex = 0;
s.status = EXTRA_STATE;
}
}
else // DEFLATE header
{
  var header = (Z_DEFLATED + ((s.w_bits - 8) << 4)) << 8;
  var level_flags = -1;

  if (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2) {
    level_flags = 0;
  } else if (s.level < 6) {
    level_flags = 1;
  } else if (s.level === 6) {
    level_flags = 2;
  } else {
    level_flags = 3;
  }
  header |= (level_flags << 6);
  if (s.strstart !== 0) { header |= PRESET_DICT; }
  header += 31 - (header % 31);

  s.status = BUSY_STATE;
pushByte(s, header);

  /* Save the adler32 of the preset dictionary: */
  if (s.strstart !== 0) {
    pushShortMSB(s, strm.adler >>> 16);
    pushShortMSB(s, strm.adler & 0xffff);
  }
strm.adler = 1; // adler32(0L, Z_NULL, 0);
}
}

#elseif GZIP

if (s.status === EXTRA_STATE) {
    if (s.gzhead.extra/* != Z_NULL*/) {
        beg = s.pending; /* start of bytes to update crc */

        while (s.gzindex < (s.gzhead.extra.length & 0xffff)) {
            if (s.pending === s.pending_buf_size) {
                if (s.gzhead.hcrc && s.pending > beg) {
                    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
                }
                flush_pending(strm);
                beg = s.pending;
                if (s.pending === s.pending_buf_size) {
                    break;
                }
            }
            put_byte(s, s.gzhead.extra[s.gzindex] & 0xff);
            s.gzindex++;
        }
        if (s.gzhead.hcrc && s.pending > beg) {
            strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
        }
        if (s.gzindex === s.gzhead.extra.length) {
            s.gzindex = 0;
            s.status = NAME_STATE;
        }
    }
    else {
        s.status = NAME_STATE;
    }
}

if (s.status === NAME_STATE) {
    if (s.gzhead.name/* != Z_NULL*/) {
        beg = s.pending; /* start of bytes to update crc */
        //int val;

        do {
            if (s.pending === s.pending_buf_size) {
                if (s.gzhead.hcrc && s.pending > beg) {
                    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
                }
                flush_pending(strm);
                beg = s.pending;
                if (s.pending === s.pending_buf_size) {
val = 1;
break;
}

// JS specific: little magic to add zero terminator to end of string
if (s.gzindex < s.gzhead.name.length) {
    val = s.gzhead.name.charCodeAt(s.gzindex++) & 0xff;
} else {
    val = 0;
}
put_byte(s, val);
} while (val !== 0);

if (s.gzhead.hcrc && s.pending > beg) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
}
if (val === 0) {
    s.gzindex = 0;
    s.status = COMMENT_STATE;
}
else {
    s.status = COMMENT_STATE;
}

if (s.status === COMMENT_STATE) {
    if (s.gzhead.comment/* != Z_NULL*/) {
        beg = s.pending;  /* start of bytes to update crc */
        //int val;

        do {
            if (s.pending === s.pending_buf_size) {
                if (s.gzhead.hcrc && s.pending > beg) {
                    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
                }
                flush_pending(strm);
                beg = s.pending;
                if (s.pending === s.pending_buf_size) {
                    val = 1;
                    break;
                }
            }
        } while (val !== 0);

        // JS specific: little magic to add zero terminator to end of string
        if (s.gzindex < s.gzhead.comment.length) {
            val = s.gzhead.comment.charCodeAt(s.gzindex++) & 0xff;
        } else {
            val = 0;
        }
    }
}
put_byte(s, val);
} while (val !== 0);

if (s.gzhead.hcrc && s.pending > beg) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
}
if (val === 0) {
    s.status = HCRC_STATE;
}
else {
    s.status = HCRC_STATE;
}
if (s.status === HCRC_STATE) {
    if (s.gzhead.hcrc) {
        if (s.pending + 2 > s.pending_buf_size) {
            flush_pending(strm);
        }
        else {
            flush_pending(strm);
        }
    }
    else {
        s.status = BUSY_STATE;
    }
    /* Flush as much pending output as possible */
    if (s.pending !== 0) {
        flush_pending(strm);
        if (strm.avail_out === 0) {
            /* Since avail_out is 0, deflate will be called again with
             * more output space, but possibly with both pending and
             * avail_in equal to zero. There won't be anything to do,
             * but this is not an error situation so make sure we
             * return OK instead of BUF_ERROR at next call of deflate:
             */
            s.last_flush = -1;
            return Z_OK;
        }
    }
    else {
        s.status = BUSY_STATE;
    }
    /* Make sure there is something to do and avoid duplicate consecutive
     * flushes. For repeated and useless calls with Z_FINISH, we keep
* returning Z_STREAM_END instead of Z_BUF_ERROR.
*/
} else if (strm.avail_in === 0 && rank(flush) <= rank(old_flush) &&
flush !== Z_FINISH) {
    return err(strm, Z_BUF_ERROR);
}

/* User must not provide more input after the first FINISH: */
if (s.status === FINISH_STATE && strm.avail_in !== 0) {
    return err(strm, Z_BUF_ERROR);
}

/* Start a new block or continue the current one. */
if (strm.avail_in !== 0 || s.lookahead !== 0 ||
(flush !== Z_NO_FLUSH && s.status !== FINISH_STATE)) {
    var bstate = (s.strategy === Z_HUFFMAN_ONLY) ?
deflate_huff(s, flush) :
    (s.strategy === Z_RLE ? deflate_rle(s, flush) :
    configuration_table[s.level].func(s, flush));

    if (bstate === BS_FINISH_STARTED || bstate === BS_FINISH_DONE) {
        s.status = FINISH_STATE;
    }
    if (bstate === BS_NEED_MORE || bstate === BS_FINISH_STARTED) {
        if (strm.avail_out === 0) {
            s.last_flush = -1;
            /* avoid BUF_ERROR next call, see above */
        }
        return Z_OK;
    } /* If flush != Z_NO_FLUSH && avail_out == 0, the next call
    * of deflate should use the same flush parameter to make sure
    * that the flush is complete. So we don't have to output an
    * empty block here, this will be done at next call. This also
    * ensures that for a very small output buffer, we emit at most
    * one empty block.
    */
    if (bstate === BS_BLOCK_DONE) {
        if (flush === Z_PARTIAL_FLUSH) {
            trees._tr_align(s);
        }
        else if (flush === Z_BLOCK) { /* FULL_FLUSH or SYNC_FLUSH */
            trees._tr_stored_block(s, 0, 0, false);
            /* For a full flush, this empty block will be recognized
            * as a special marker by inflate_sync().
            */
        if (flush === Z_FULL_FLUSH) {
   /* Clear hash table. */
   if (s.lookahead === 0) {
     s.strstart = 0;
     s.block_start = 0;
     s.insert = 0;
   }
   }
   flush_pending(strm);
   if (strm.avail_out === 0) {
     s.last_flush = -1; /* avoid BUF_ERROR at next call, see above */
     return Z_OK;
   }
   }
   // Assert(strm->avail_out > 0, "bug2");
   // if (strm.avail_out <= 0) { throw new Error("bug2"); }

   if (flush !== Z_FINISH) { return Z_OK; }
   if (s.wrap <= 0) { return Z_STREAM_END; }

   /* Write the trailer */
   if (s.wrap === 2) {
     put_byte(s, strm.adler & 0xff);
     put_byte(s, (strm.adler >> 8) & 0xff);
     put_byte(s, (strm.adler >> 16) & 0xff);
     put_byte(s, (strm.adler >> 24) & 0xff);
     put_byte(s, strm.total_in & 0xff);
     put_byte(s, (strm.total_in >> 8) & 0xff);
     put_byte(s, (strm.total_in >> 16) & 0xff);
     put_byte(s, (strm.total_in >> 24) & 0xff);
   }
   else {
     putShortMSB(s, strm.adler >>> 16);
     putShortMSB(s, strm.adler & 0xffff);
   }

   flush_pending(strm);
   /* If avail_out is zero, the application will call deflate again
    * to flush the rest.
    */
   if (s.wrap > 0) { s.wrap = -s.wrap; }
   /* write the trailer only once */
   return s.pending !== 0 ? Z_OK : Z_STREAM_END;
function deflateEnd(strm) {
  var status;

  if (!strm/*== Z_NULL*/ || !strm.state/*== Z_NULL*/) {
    return Z_STREAM_ERROR;
  }

  status = strm.state.status;
  if (status !== INIT_STATE &&
      status !== EXTRA_STATE &&
      status !== NAME_STATE &&
      status !== COMMENT_STATE &&
      status !== HCRC_STATE &&
      status !== BUSY_STATE &&
      status !== FINISH_STATE)
    return err(strm, Z_STREAM_ERROR);

  return status === BUSY_STATE ? err(strm, Z_DATA_ERROR) : Z_OK;
}

/* =========================================================================
   * Initializes the compression dictionary from the given byte
   * sequence without producing any compressed output.
   */
   function deflateSetDictionary(strm, dictionary) {
     var dictLength = dictionary.length;

     var s;
     var str, n;
     var wrap;
     var avail;
     var next;
     var input;
     var tmpDict;

     if (!strm/*== Z_NULL*/ || !strm.state/*== Z_NULL*/) {
       return Z_STREAM_ERROR;
     }

     s = strm.state;
     wrap = s.wrap;

if (wrap == 2 || (wrap == 1 && s.status != INIT_STATE) || s.lookahead) {
    return Z_STREAM_ERROR;
}

/* when using zlib wrappers, compute Adler-32 for provided dictionary */
if (wrap == 1) {
    /* adler32(strm->adler, dictionary, dictLength); */
    strm.adler = adler32(strm.adler, dictionary, dictLength, 0);
}

s.wrap = 0; /* avoid computing Adler-32 in read_buf */

/* if dictionary would fill window, just replace the history */
if (dictLength >= s.w_size) {
    if (wrap == 0) { /* already empty otherwise */
        /** CLEAR_HASH(s); **/
        zero(s.head); // Fill with NIL (= 0);
        s.strstart = 0;
        s.block_start = 0;
        s.insert = 0;
    }
    /* use the tail */
    // dictionary = dictionary.slice(dictLength - s.w_size);
    tmpDict = new utils.Buf8(s.w_size);
    utils.arraySet(tmpDict, dictionary, dictLength - s.w_size, s.w_size, 0);
    dictionary = tmpDict;
    dictLength = s.w_size;
}

/* insert dictionary into window and hash */
avail = strm.avail_in;
next = strm.next_in;
input = strm.input;
strm.avail_in = dictLength;
strm.next_in = 0;
strm.input = dictionary;
fill_window(s);
while (s.lookahead >= MIN_MATCH) {
    str = s.strstart;
    n = s.lookahead - (MIN_MATCH - 1);
    do {
        /* UPDATE_HASH(s, s->ins_h, s->window[str + MIN_MATCH-1]); */
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + MIN_MATCH - 1]) & s.hash_mask;
        s.prev[str & s.w_mask] = s.head[s.ins_h];
        s.head[s.ins_h] = str;
        str++;
    } while (--n);
s.strstart = str;
s.lookahead = MIN_MATCH - 1;
fill_window(s);
}
s.strstart += s.lookahead;
s.block_start = s.strstart;
s.insert = s.lookahead;
s.lookahead = 0;
s.match_length = s.prev_length = MIN_MATCH - 1;
s.match_available = 0;
strm.next_in = next;
strm.input = input;
strm.avail_in = avail;
s.wrap = wrap;
return Z_OK;
}

exports.deflateInit = deflateInit;
exports.deflateInit2 = deflateInit2;
exports.deflateReset = deflateReset;
exports.deflateResetKeep = deflateResetKeep;
exports.deflateSetHeader = deflateSetHeader;
exports.deflate = deflate;
exports.deflateEnd = deflateEnd;
exports.deflateSetDictionary = deflateSetDictionary;
exports.deflateInfo = 'pako deflate (from Nodeca project)';

/* Not implemented */
exports.deflateBound = deflateBound;
exports.deflateCopy = deflateCopy;
exports.deflateParams = deflateParams;
exports.deflatePending = deflatePending;
exports.deflatePrime = deflatePrime;
exports.deflateTune = deflateTune;
*/

/*

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function GZheader() {
    /* true if compressed data believed to be text */
    this.text       = 0;
    /* modification time */
    this.time       = 0;
    /* extra flags (not used when writing a gzip file) */
    this.xflags     = 0;
    /* operating system */
    this.os         = 0;
    /* pointer to extra field or Z_NULL if none */
    this.extra      = null;
    /* extra field length (valid if extra != Z_NULL) */
    this.extra_len  = 0; // Actually, we don't need it in JS,
                         // but leave for few code modifications

    //
    // Setup limits is not necessary because in js we should not preallocate memory
    // for inflate use constant limit in 65536 bytes
    //
    /* space at extra (only when reading header) */
    this.extra_max  = 0;
    /* pointer to zero-terminated file name or Z_NULL */
    this.name       = ";
    /* space at name (only when reading header) */
    this.name_max   = 0;
    /* pointer to zero-terminated comment or Z_NULL */
    this.comment    = ";
    /* space at comment (only when reading header) */
    this.comm_max   = 0;
    /* true if there was or will be a header crc */
    this.hcrc       = 0;
    /* true when done reading gzip header (not used when writing a gzip file) */
    this.done       = false;
}
module.exports = GZheader;

});},[]],48:[function(require,module,exports){
'use strict';

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// See state defs from inflate.js
var BAD = 30;       /* got a data error -- remain here until reset */
var TYPE = 12;      /* i: waiting for type bits, including last-flag bit */

/*
 * Decode literal, length, and distance codes and write out the resulting
 * literal and match bytes until either not enough input or output is
 * available, an end-of-block is encountered, or a data error is encountered.
 * When large enough input and output buffers are supplied to inflate(), for
 * example, a 16K input buffer and a 64K output buffer, more than 95% of the
 * inflate execution time is spent in this routine.
 *
 * Entry assumptions:
 *
 * state.mode === LEN
 * strm.avail_in >= 6
 * strm.avail_out >= 258
 * start >= strm.avail_out
 * state.bits < 8
 *
 * On return, state.mode is one of:
 *
 * LEN -- ran out of enough output space or enough available input
 * TYPE -- reached end of block code, inflate() to interpret next block
 */
BAD -- error in block data

Notes:

- The maximum input bits used by a length/distance pair is 15 bits for the length code, 5 bits for the length extra, 15 bits for the distance code, and 13 bits for the distance extra. This totals 48 bits, or six bytes. Therefore if strm.avail_in >= 6, then there is enough input to avoid checking for available input while decoding.

- The maximum bytes that a single length/distance pair can output is 258 bytes, which is the maximum length that can be coded. inflate_fast() requires strm.avail_out >= 258 for each loop to avoid checking for output space.

*/
module.exports = function inflate_fast(strm, start) {
    var state;
    var _in; /* local strm.input */
    var last; /* have enough input while in < last */
    var _out; /* local strm.output */
    var beg; /* inflate()'s initial strm.output */
    var end; /* while out < end, enough space available */

    //ifdef INFLATE_STRICT
    var dmax; /* maximum distance from zlib header */
    //endif

    var wsize; /* window size or zero if not using window */
    var whave; /* valid bytes in the window */
    var wnext; /* window write index */

    // Use `s_window` instead `window`, avoid conflict with instrumentation tools
    var s_window; /* allocated sliding window, if wsize != 0 */
    var hold; /* local strm.hold */
    var bits; /* local strm.bits */
    var lcode; /* local strm.lencode */
    var dcode; /* local strm.distcode */
    var lmask; /* mask for first level of length codes */
    var dmask; /* mask for first level of distance codes */
    var here; /* retrieved table entry */
    var op; /* code bits, operation, extra bits, or */
              /* window position, window bytes to copy */
    var len; /* match length, unused bytes */
    var dist; /* match distance */
    var from; /* where to copy match from */
    var from_source;

    var input, output; // JS specific, because we have no pointers

    /* copy state to local variables */
state = strm.state;
//here = state.here;
_in = strm.next_in;
input = strm.input;
last = _in + (strm.avail_in - 5);
_out = strm.next_out;
output = strm.output;
beg = _out - (start - strm.avail_out);
end = _out + (strm.avail_out - 257);
//#ifdef INFLATE_STRICT
 dmax = state.dmax;
//#endif
 wsize = state.wsize;
 whave = state.whave;
 wnext = state.wnext;
s_window = state.window;
 hold = state.hold;
 bits = state.bits;
 lcode = state.lencode;
 dcode = state.distcode;
 lmask = (1 << state.lenbits) - 1;
 dmask = (1 << state.distbits) - 1;

/* decode literals and length/distances until end-of-block or not enough input data or output space */
top:
do {
  if (bits < 15) {
    hold += input[_in++] << bits;
    bits += 8;
    hold += input[_in++] << bits;
    bits += 8;
  }

  here = lcode[hold & lmask];

dolen:
  for (;;) { // Goto emulation
    op = here >>> 24/*here.bits*/;
    hold >>>= op;
    bits -= op;
    op = (here >>> 16) & 0xff/*here.op*/;
    if (op === 0) {
      /* literal */
      //Tracevv((stderr, here.val >= 0x20 && here.val < 0x7f ?
      //    "inflate: literal " +
      //    "\%c\n",
      //    here.val));
    }
output[_out++] = here & 0xffff/*here.val*/;
}
else if (op & 16) { /* length base */
    len = here & 0xffff/*here.val*/;
    op &= 15; /* number of extra bits */
    if (op) {
        if (bits < op) {
            hold += input[_in++] << bits;
            bits += 8;
        }
        len += hold & ((1 << op) - 1);
        hold >>>= op;
        bits -= op;
    }
    //Tracevv((stderr, "inflate:         length %u\n", len));
    if (bits < 15) {
        hold += input[_in++] << bits;
        bits += 8;
        hold += input[_in++] << bits;
        bits += 8;
    }
    here = dcode[hold & dmask];

dodist:
    for (;;) { // goto emulation
        op = here >>> 24/*here.bits*/;
        hold >>>= op;
        bits -= op;
        op = (here >>> 16) & 0xff/*here.op*/;
        if (op & 16) { /* distance base */
            dist = here & 0xffff/*here.val*/;
            op &= 15; /* number of extra bits */
            if (bits < op) {
                hold += input[_in++] << bits;
                bits += 8;
                if (bits < op) {
                    hold += input[_in++] << bits;
                    bits += 8;
                }
            }
            dist += hold & ((1 << op) - 1);
        }
        if (dist > dmax) {
            strm.msg = "invalid distance too far back";
            state.mode = BAD;
            break top;
        }
    }
    //ifdef INFLATE_STRICT
    if (dist > dmax) {
        strm.msg = 'invalid distance too far back';
        state.mode = BAD;
        break top;
    }
}
```c
    hold >>= op;
    bits -= op;
    //Tracevv((stderr, "inflate: distance %u\n", dist));
    op = _out - beg; /* max distance in output */
    if (dist > op) { /* see if copy from window */
        op = dist - op; /* distance back in window */
        if (op > whave) {
            if (state.sane) {
                strm.msg = 'invalid distance too far back';
                state.mode = BAD;
                break top;
            }
        }
    }

    // (!) This block is disabled in zlib defaults,
    // don't enable it for binary compatibility
    //#ifdef INFLATE_ALLOW_INVALID_DISTANCE_TOO_FAR_ARRR
    //     if (len <= op - whave) {
    //         do {
    //             output[_out++] = 0;
    //         } while (--len);
    //         continue top;
    //     }
    //     len -= op - whave;
    //     do {
    //         output[_out++] = 0;
    //     } while (--op > whave);
    //     if (op === 0) {
    //         from = _out - dist;
    //         do {
    //             output[_out++] = output[from++];
    //         } while (--len);
    //         continue top;
    //     }
    //#endif

    from = 0; // window index
    from_source = s_window;
    if (wnext === 0) { /* very common case */
        from += wsize - op;
    }
    if (op < len) { /* some from window */
        len -= op;
        do {
            output[_out++] = s_window[from++];
        } while (--op);
        from = _out - dist; /* rest from output */
        from_source = output;
    }
```
else if (wnext < op) { /* wrap around window */
    from += wsize + wnext - op;
    op -= wnext;
    if (op < len) { /* some from end of window */
        len -= op;
        do {
            output[_out++] = s_window[from++];
        } while (--op);
        from = 0;
        if (wnext < len) { /* some from start of window */
            op = wnext;
            len -= op;
            do {
                output[_out++] = s_window[from++];
            } while (--op);
            from = _out - dist; /* rest from output */
            from_source = output;
        }
    }
}
else { /* contiguous in window */
    from += wnext - op;
    if (op < len) { /* some from window */
        len -= op;
        do {
            output[_out++] = s_window[from++];
        } while (--op);
        from = _out - dist; /* rest from output */
        from_source = output;
    }
}
while (len > 2) {
    output[_out++] = from_source[from++];
    output[_out++] = from_source[from++];
    output[_out++] = from_source[from++];
    len -= 3;
}
if (len) {
    output[_out++] = from_source[from++];
    if (len > 1) {
        output[_out++] = from_source[from++];
    }
}
}
else { /* minimum length is three */
    from = _out - dist; /* copy direct from output */
    do {
    */
output[_out++] = output[from++];
output[_out++] = output[from++];
output[_out++] = output[from++];
len -= 3;
} while (len > 2);
if (len) {
  output[_out++] = output[from++];
  if (len > 1) {
    output[_out++] = output[from++];
  }
}
}
}
else if ((op & 64) === 0) { /* 2nd level distance code */
  here = dcode[(here & 0xffff)/*here.val*/ + (hold & ((1 << op) - 1))];
  continue dodist;
}
else {
  strm.msg = 'invalid distance code';
  state.mode = BAD;
  break top;
}

break; // need to emulate goto via "continue"
}
}
else if ((op & 64) === 0) { /* 2nd level length code */
  here = lcode[(here & 0xffff)/*here.val*/ + (hold & ((1 << op) - 1))];
  continue dolen;
}
else if (op & 32) { /* end-of-block */
  //Tracevv((stderr, "inflate: end of block\n"));
  state.mode = TYPE;
  break top;
}
else {
  strm.msg = 'invalid literal/length code';
  state.mode = BAD;
  break top;
}

break; // need to emulate goto via "continue"
}
} while (_in < last && _out < end);

/* return unused bytes (on entry, bits < 8, so in won’t go too far back) */
len = bits >> 3;
_in -= len;
bits -= len << 3;
hold &= (1 << bits) - 1;

/* update state and return */
strm.next_in = _in;
strm.next_out = _out;
strm.avail_in = (_in < last ? 5 + (last - _in) : 5 - (_in - last));
strm.avail_out = (_out < end ? 257 + (end - _out) : 257 - (_out - end));
state.hold = hold;
state.bits = bits;
return;
};

},{}],49:[function(require,module,exports){
'use strict';

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//
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var utils = require('./utils/common');
var adler32 = require('./adler32');
var crc32 = require('./crc32');
var inflate_fast = require('./inffast');
var inflate_table = require('./inftrees');

var CODES = 0;
var LENS = 1;
var DISTS = 2;

/* Public constants */
/* Allowed flush values; see deflate() and inflate() below for details */
//var Z_NO_FLUSH = 0;
//var Z_PARTIAL_FLUSH = 1;
//var Z_SYNC_FLUSH = 2;
//var Z_FULL_FLUSH = 3;
var Z_FINISH = 4;
var Z_BLOCK = 5;
var Z_TREES = 6;

/* Return codes for the compression/decompression functions. Negative values */
* are errors, positive values are used for special but normal events. */
var Z_OK = 0;
var Z_STREAM_END = 1;
var Z_NEED_DICT = 2;
//var Z_ERRNO = -1;
var Z_STREAM_ERROR = -2;
var Z_DATA_ERROR = -3;
var Z_MEM_ERROR = -4;
//var Z_VERSION_ERROR = -6;
var Z_DEFLATED = 8;

/* STATES ===================================================*/
/* ===========================================================================*/
var HEAD = 1;       /* i: waiting for magic header */
var FLAGS = 2;      /* i: waiting for method and flags (gzip) */
var TIME = 3;       /* i: waiting for modification time (gzip) */
var OS = 4;         /* i: waiting for extra flags and operating system (gzip) */
var EXLEN = 5;      /* i: waiting for extra length (gzip) */
var EXTRA = 6;      /* i: waiting for extra bytes (gzip) */
var NAME = 7;       /* i: waiting for end of file name (gzip) */
var COMMENT = 8;    /* i: waiting for end of comment (gzip) */
var HCRC = 9;       /* i: waiting for header crc (gzip) */
var DICTID = 10;    /* i: waiting for dictionary check value */
var DICT = 11;      /* i: waiting for inflateSetDictionary() call */
var TYPE = 12;      /* i: waiting for type bits, including last-flag bit */
var TYPEDO = 13;    /* i: same, but skip check to exit inflate on new block */
var STORED = 14;    /* i: waiting for stored size (length and complement) */
var COPY_ = 15;     /* i/o: same as COPY below, but only first time in */
var COPY = 16;      /* i/o: waiting for input or output to copy stored block */
var TABLE = 17; /* i: waiting for dynamic block table lengths */
var LENLENS = 18; /* i: waiting for code length code lengths */
var CODELENS = 19; /* i: waiting for length/lit and distance code lengths */
var LEN_ = 20; /* i: same as LEN below, but only first time in */
var LEN = 21; /* i: waiting for length/lit/eob code */
var LENEXT = 22; /* i: waiting for length extra bits */
var DIST = 23; /* i: waiting for distance code */
var DISTEXT = 24; /* i: waiting for distance extra bits */
var MATCH = 25; /* o: waiting for output space to copy string */
var LIT = 26; /* o: waiting for output space to write literal */
var CHECK = 27; /* i: waiting for 32-bit check value */
var LENGTH = 28; /* i: waiting for 32-bit length (gzip) */
var DONE = 29; /* finished check, done -- remain here until reset */
var BAD = 30; /* got a data error -- remain here until reset */
var MEM = 31; /* got an inflate() memory error -- remain here until reset */
var SYNC = 32; /* looking for synchronization bytes to restart inflate() */

/* ===========================================================================*/
var ENOUGH_LENS = 852;
var ENOUGH_DISTS = 592;
//var ENOUGH = (ENOUGH_LENS+ENOUGH_DISTS);

var MAX_WBITS = 15;
/* 32K LZ77 window */
var DEF_WBITS = MAX_WBITS;

function zswap32(q) {
    return (((q >>> 24) & 0xff) +
            ((q >>> 8) & 0xff00) +
            ((q & 0xff00) << 8) +
            ((q & 0xff) << 24));
}

function InflateState() {
    this.mode = 0; /* current inflate mode */
    this.last = false; /* true if processing last block */
    this.wrap = 0; /* bit 0 true for zlib, bit 1 true for gzip */
    this.havedict = false; /* true if dictionary provided */
    this.flags = 0; /* gzip header method and flags (0 if zlib) */
    this.dmax = 0; /* zlib header max distance (INFLATE_STRICT) */
    this.check = 0; /* protected copy of check value */
    this.total = 0; /* protected copy of output count */
    // TODO: may be }

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this.head = null; /* where to save gzip header information */

/* sliding window */
this.wbits = 0; /* log base 2 of requested window size */
this.wsiz = 0; /* window size or zero if not using window */
this.whave = 0; /* valid bytes in the window */
this.wnext = 0; /* window write index */
this.window = null; /* allocated sliding window, if needed */

/* bit accumulator */
this.hold = 0; /* input bit accumulator */
this.bits = 0; /* number of bits in "in" */

/* for string and stored block copying */
this.length = 0; /* literal or length of data to copy */
this.offset = 0; /* distance back to copy string from */

/* for table and code decoding */
this.extra = 0; /* extra bits needed */

/* fixed and dynamic code tables */
this.lencode = null; /* starting table for length/literal codes */
this.distcode = null; /* starting table for distance codes */
this.lenbits = 0; /* index bits for lencode */
this.distbits = 0; /* index bits for distcode */

/* dynamic table building */
this.ncode = 0; /* number of code length code lengths */
this.nlen = 0; /* number of length code lengths */
this.ndist = 0; /* number of distance code lengths */
this.have = 0; /* number of code lengths in lens[] */
this.next = null; /* next available space in codes[] */

this.lens = new util.Buf16(320); /* temporary storage for code lengths */
this.work = new util.Buf16(288); /* work area for code table building */

/*
because we don't have pointers in js, we use lencode and distcode directly
as buffers so we don't need codes
*/
//this.codes = new util.Buf32(ENOUGH); /* space for code tables */
this.lendyn = null; /* dynamic table for length/literal codes (JS specific) */
this.distdyn = null; /* dynamic table for distance codes (JS specific) */
this.sane = 0; /* if false, allow invalid distance too far */
this.back = 0; /* bits back of last unprocessed length/lit */
this.was = 0; /* initial length of match */
}
function inflateResetKeep(strm) {
    var state;

    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    strm.total_in = strm.total_out = state.total = 0;
    strm.msg = ''; /*Z_NULL*/
    if (state.wrap) { /* to support ill-conceived Java test suite */
        strm.adler = state.wrap & 1;
    }
    state.mode = HEAD;
    state.last = 0;
    state.havedict = 0;
    state.dmax = 32768;
    state.head = null/*Z_NULL*/;
    state.hold = 0;
    state.bits = 0;
    //state.lencode = state.distcode = state.next = state.codes;
    state.lencode = state.lendyn = new utils.Buf32(ENOUGH_LENS);
    state.distcode = state.distdyn = new utils.Buf32(ENOUGH_DISTS);
    state.sane = 1;
    state.back = -1;
    //Tracev((stderr, "inflate: reset\n"));
    return Z_OK;
}

function inflateReset(strm) {
    var state;

    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    state.wsize = 0;
    state.whave = 0;
    state.wnext = 0;
    return inflateResetKeep(strm);
}

function inflateReset2(strm, windowBits) {
    var wrap;
    var state;

    /* get the state */
    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;

    /* extract wrap request from windowBits parameter */
if (windowBits < 0) {
    wrap = 0;
    windowBits = -windowBits;
} else {
    wrap = (windowBits >> 4) + 1;
    if (windowBits < 48) {
        windowBits &= 15;
    }
}

/* set number of window bits, free window if different */
if (windowBits && (windowBits < 8 || windowBits > 15)) {
    return Z_STREAM_ERROR;
}
if (state.window !== null && state.wbits !== windowBits) {
    state.window = null;
}

/* update state and reset the rest of it */
state.wrap = wrap;
state.wbits = windowBits;
return inflateReset(strm);
}

function inflateInit2(strm, windowBits) {
    var ret;
    var state;

    if (!strm) { return Z_STREAM_ERROR; }
    //strm.msg = Z_NULL;                 /* in case we return an error */

    state = new InflateState();

    //if (state === Z_NULL) return Z_MEM_ERROR;
    //Tracev((stderr, "inflate: allocated\n"));
    strm.state = state;
    state.window = null/*Z_NULL*/;
    ret = inflateReset2(strm, windowBits);
    if (ret !== Z_OK) {
        strm.state = null/*Z_NULL*/;
    }
    return ret;
}

function inflateInit(strm) {
    return inflateInit2(strm, DEF_WBITS);
}
/*
Return state with length and distance decoding tables and index sizes set to
fixed code decoding. Normally this returns fixed tables from infixed.h.
If BUILDFIXED is defined, then instead this routine builds the tables the
first time it's called, and returns those tables the first time and
thereafter. This reduces the size of the code by about 2K bytes, in
exchange for a little execution time. However, BUILDFIXED should not be
used for threaded applications, since the rewriting of the tables and virgin
may not be thread-safe.
*/

var virgin = true;

var lenfix, distfix; // We have no pointers in JS, so keep tables separate

function fixedtables(state) {
    /* build fixed huffman tables if first call (may not be thread safe) */
    if (virgin) {
        var sym;

        lenfix = new utils.Buf32(512);
        distfix = new utils.Buf32(32);

        /* literal/length table */
        sym = 0;
        while (sym < 144) { state.lens[sym++] = 8; }
        while (sym < 256) { state.lens[sym++] = 9; }
        while (sym < 280) { state.lens[sym++] = 7; }
        while (sym < 288) { state.lens[sym++] = 8; }
        inflate_table(LENS, state.lens, 0, 288, lenfix, 0, state.work, { bits: 9 });

        /* distance table */
        sym = 0;
        while (sym < 32) { state.lens[sym++] = 5; }
        inflate_table(DISTS, state.lens, 0, 32, distfix, 0, state.work, { bits: 5 });

        /* do this just once */
        virgin = false;
    }

    state.lencode = lenfix;
    state.lenbits = 9;
    state.distcode = distfix;
    state.distbits = 5;
}
/* 
Update the window with the last wsize (normally 32K) bytes written before returning. If window does not exist yet, create it. This is only called when a window is already in use, or when output has been written during this inflate call, but the end of the deflate stream has not been reached yet. It is also called to create a window for dictionary data when a dictionary is loaded.

Providing output buffers larger than 32K to inflate() should provide a speed advantage, since only the last 32K of output is copied to the sliding window upon return from inflate(), and since all distances after the first 32K of output will fall in the output data, making match copies simpler and faster. The advantage may be dependent on the size of the processor's data caches.
*/

function updatewindow(strm, src, end, copy) {
    var dist;
    var state = strm.state;

    /* if it hasn't been done already, allocate space for the window */
    if (state.window === null) {
        state.wsize = 1 << state.wbits;
        state.wnext = 0;
        state.whave = 0;

        state.window = new utils.Buf8(state.wsize);
    }

    /* copy state->wsize or less output bytes into the circular window */
    if (copy >= state.wsize) {
        utils.arraySet(state.window, src, end - state.wsize, state.wsize, 0);
        state.wnext = 0;
        state.whave = state.wsize;
    }
    else {
        dist = state.wsize - state.wnext;
        if (dist > copy) {
            dist = copy;
        }
        //zmemcpy(state->window + state->wnext, end - copy, dist);
        utils.arraySet(state.window, src, end - copy, dist, state.wnext);
        copy -= dist;
        if (copy) {
            //zmemcpy(state->window, end - copy, copy);
            utils.arraySet(state.window, src, end - copy, copy, 0);
            state.wnext = copy;
            state.whave = state.wsize;
        }
    }
}
function inflate(strm, flush) {  
    var state;
    var input, output; // input/output buffers
    var next; /* next input INDEX */
    var put; /* next output INDEX */
    var have, left; /* available input and output */
    var hold; /* bit buffer */
    var bits; /* bits in bit buffer */
    var _in, _out; /* save starting available input and output */
    var copy; /* number of stored or match bytes to copy */
    var from; /* where to copy match bytes from */
    var from_source;
    var here = 0; /* current decoding table entry */
    var here_bits, here_op, here_val; // paked "here" denormalized (JS specific)
    /* parent table entry */
    var last_bits, last_op, last_val; // paked "last" denormalized (JS specific)
    var len; /* length to copy for repeats, bits to drop */
    var ret; /* return code */
    var hbuf = new utils.Buf8(4); /* buffer for gzip header crc calculation */
    var opts;

    var n; // temporary var for NEED_BITS

    var order = /* permutation of code lengths */
               [ 16, 17, 18, 0, 8, 7, 9, 6, 10, 5, 11, 4, 12, 3, 13, 2, 14, 1, 15 ];

    if (!strm || !strm.state || !strm.output ||
        (!strm.input && strm.avail_in !== 0)) {
        return Z_STREAM_ERROR;
    }

    state = strm.state;
    if (state.mode === TYPE) { state.mode = TYPEDO; } /* skip check */

    //--- LOAD() ---
    put = strm.next_out;
output = strm.output;
left = strm.avail_out;
next = strm.next_in;
input = strm.input;
have = strm.avail_in;
hold = state.hold;
bits = state.bits;
//---

_in = have;
_out = left;
ret = Z_OK;

inf_leave: // goto emulation
for (;;) {
    switch (state.mode) {
    case HEAD:
        if (state.wrap === 0) {
            state.mode = TYPEDO;
            break;
        }
        //== NEEDBITS(16);
        while (bits < 16) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //==
        if ((state.wrap & 2) && hold === 0x8b1f) { /* gzip header */
            state.check = 0/*crc32(0L, Z_NULL, 0)*/;
            //== CRC2(state.check, hold);
            hbuf[0] = hold & 0xff;
            hbuf[1] = (hold >>> 8) & 0xff;
            state.check = crc32(state.check, hbuf, 2, 0);
            //===
            //== INITBITS();
            hold = 0;
            bits = 0;
            //===
            state.mode = FLAGS;
            break;
        }
        state.flags = 0; /* expect zlib header */
        if (state.head) {
            state.head.done = false;
        }
    }
if (!state.wrap & 1) || /* check if zlib header allowed */
((hold & 0xff)/*BITS(8)*/ << 8) + (hold >> 8)) % 31) {
    strm.msg = 'incorrect header check';
    state.mode = BAD;
    break;
}
if ((hold & 0x0f)/*BITS(4)*/ !== Z_DEFLATED) {
    strm.msg = 'unknown compression method';
    state.mode = BAD;
    break;
}
//-- DROPBITS(4) //--
hold >>= 4;
bits -= 4;
//--//--
len = (hold & 0x0f)/*BITS(4)*/ + 8;
if (state.wbits === 0) {
    state.wbits = len;
} else if (len > state.wbits) {
    strm.msg = 'invalid window size';
    state.mode = BAD;
    break;
}
state.dmax = 1 << len;
//Tracev((stderr, "inflate: zlib header ok\n");
strm.adler = state.check = 1/*adler32(0L, Z_NULL, 0)*/;
state.mode = hold & 0x200 ? DICTID : TYPE;
//-- INITBITS();
hold = 0;
bits = 0;
//--//--
break;
case FLAGS:
//-- NEEDBITS(16); */
while (bits < 16) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//--//--
state.flags = hold;
if ((state.flags & 0xff) !== Z_DEFLATED) {
    strm.msg = 'unknown compression method';
    state.mode = BAD;
    break;
}
if (state.flags & 0xe000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.head) {
    state.head.text = ((hold >> 8) & 1);
}
if (state.flags & 0x0200) {
   //=== CRC2(state.check, hold);
    hbuf[0] = hold & 0xff;
    hbuf[1] = (hold >>> 8) & 0xff;
    state.check = crc32(state.check, hbuf, 2, 0);
   //===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===
state.mode = TIME;
/* falls through */
case TIME:
//=== NEEDBITS(32); */
while (bits < 32) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
if (state.head) {
    state.head.time = hold;
}
if (state.flags & 0x0200) {
   //=== CRC4(state.check, hold)
    hbuf[0] = hold & 0xff;
    hbuf[1] = (hold >>> 8) & 0xff;
    hbuf[2] = (hold >>> 16) & 0xff;
    hbuf[3] = (hold >>> 24) & 0xff;
    state.check = crc32(state.check, hbuf, 4, 0);
   //===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===
state.mode = OS;
/* falls through */
case OS:
    ///= NEEDBITS(16); */
    while (bits < 16) {
        if (have == 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    ///=)
    if (state.head) {
        state.head.xflags = (hold & 0xff);
        state.head.os = (hold >> 8);
    }
    if (state.flags & 0x0200) {
        ///= CRC2(state.check, hold);
        hbuf[0] = hold & 0xff;
        hbuf[1] = (hold >>> 8) & 0xff;
        state.check = crc32(state.check, hbuf, 2, 0);
        ///=)
    }
    ///= INITBITS();
    hold = 0;
    bits = 0;
    ///=
    state.mode = EXLEN;
    /* falls through */
    case EXLEN:
        if (state.flags & 0x0400) {
            ///= NEEDBITS(16); */
            while (bits < 16) {
                if (have == 0) { break inf_leave; }
                have--;
                hold += input[next++] << bits;
                bits += 8;
            }
            ///=
            state.length = hold;
            if (state.head) {
                state.head.extra_len = hold;
            }
            if (state.flags & 0x0200) {
                ///= CRC2(state.check, hold);
                hbuf[0] = hold & 0xff;
                hbuf[1] = (hold >>> 8) & 0xff;
                state.check = crc32(state.check, hbuf, 2, 0);
                ///=
            }
            ///= INITBITS();
    \end{verbatim}

\end{document}
hold = 0;
bits = 0;
//===
}
else if (state.head) {
    state.head.extra = null/*Z_NULL*/;
}
state.mode = EXTRA;
/* falls through */
case EXTRA:
if (state.flags & 0x0400) {
    copy = state.length;
    if (copy > have) { copy = have; }
    if (copy) {
        if (state.head) {
            len = state.head.extra_len - state.length;
            if (!state.head.extra) {
                // Use untyped array for more convenient processing later
                state.head.extra = new Array(state.head.extra_len);
            }
            utils.arraySet(
                state.head.extra,
                input,
                next,
                // extra field is limited to 65536 bytes
                // - no need for additional size check
                copy,
                /*len + copy > state.head.extra_max - len ? state.head.extra_max : copy,*/ len
            );
            //zmemcpy(state.head.extra + len, next,
            //    len + copy > state.head.extra_max ?
            //    state.head.extra_max - len : copy);
        }
        if (state.flags & 0x0200) {
            state.check = crc32(state.check, input, copy, next);
        }
        have -= copy;
        next += copy;
        state.length -= copy;
    }
    if (state.length) { break inf_leave; }
}
state.length = 0;
state.mode = NAME;
/* falls through */
case NAME:
if (state.flags & 0x0800) {
if (have === 0) { break inf_leave; }
copy = 0;
do {
    // TODO: 2 or 1 bytes?
    len = input[next + copy++];
    /* use constant limit because in js we should not preallocate memory */
    if (state.head && len &&
        (state.length < 65536 /*state.head.name_max*/)) {
        state.head.name += String.fromCharCode(len);
    }
} while (len && copy < have);

if (state.flags & 0x0200) {
    state.check = crc32(state.check, input, copy, next);
}

have -= copy;
next += copy;
if (len) { break inf_leave; }
else if (state.head) {
    state.head.name = null;
}
state.length = 0;
state.mode = COMMENT;
/* falls through */
case COMMENT:
    if (state.flags & 0x1000) {
        if (have === 0) { break inf_leave; }
copy = 0;
do {
            len = input[next + copy++];
            /* use constant limit because in js we should not preallocate memory */
            if (state.head && len &&
                (state.length < 65536 /*state.head.name_max*/)) {
                state.head.name += String.fromCharCode(len);
            }
        } while (len && copy < have);
        if (state.flags & 0x0200) {
            state.check = crc32(state.check, input, copy, next);
        }
        have -= copy;
        next += copy;
        if (len) { break inf_leave; }
    } else if (state.head) {
        state.head.name = null;
    }
    state.mode = HCRC;
case HCRC:
    if (state.flags & 0x0200) {
        while (bits < 16) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
    }
    if (hold !== (state.check & 0xffff)) {
        strm.msg = 'header crc mismatch';
        state.mode = BAD;
        break;
    }
    hold = 0;
    bits = 0;
    if (state.head) {
        state.head.hcrc = ((state.flags >> 9) & 1);
        state.head.done = true;
    }
    strm.adler = state.check = 0;
    state.mode = TYPE;
    break;
    case DICTID:
        while (bits < 32) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        strm.adler = state.check = zswap32(hold);
    }
    state.mode = DICT;
    /* falls through */
    case DICT:
        if (state.havedict === 0) {
            //--- RESTORE() ---
            strm.next_out = put;
strm.avail_out = left;
strm.next_in = next;
strm.avail_in = have;
state.hold = hold;
state.bits = bits;
//---
return Z_NEED_DICT;
}
strm.adler = state.check = 1/*adler32(0L, Z_NULL, 0)*/;
state.mode = TYPE;
/* falls through */
case TYPE:
if (flush === Z_BLOCK || flush === Z_TREES) { break inf_leave; }
/* falls through */
case TYPEDO:
if (state.last) {
//--- BYTEBITS() ---//
hold >>= bits & 7;
bits -= bits & 7;
//---//
state.mode = CHECK;
break;
}
//=== NEEDBITS(3); */
while (bits < 3) {
if (have === 0) { break inf_leave; }
have--;
hold += input[next++] << bits;
bits += 8;
}
//===
state.last = (hold & 0x01)//*BITS(1)*/;
//--- DROPBITS(1) ---//
hold >>= 1;
bits -= 1;
//---//
switch ((hold & 0x03)//*BITS(2)*/) {
case 0: /* stored block */
//Tracev((stderr, "inflate: stored block%s\n",
// state.last ? " (last)" : "");
state.mode = STORED;
break;
case 1: /* fixed block */
fixedtables(state);
//Tracev((stderr, "inflate: fixed codes block%s\n",
// state.last ? " (last)" : "");
state.mode = LEN_; /* decode codes */
if (flush === Z_TREES) {
   //--- DROPBITS(2) ---/
   hold >>>= 2;
   bits -= 2;
   //---/
   break inf_leave;
}
break;
case 2: /* dynamic block */
   //Tracev((stderr, "inflate:     dynamic codes block%s\n",
   //        state.last ? " (last)" : ""));
   state.mode = TABLE;
   break;
case 3:
   strm.msg = 'invalid block type';
   state.mode = BAD;
   //--- DROPBITS(2) ---/
   hold >>>= 2;
   bits -= 2;
   //---/
   break;
case STORED:
   //--- BYTEBITS() ---/ /* go to byte boundary */
   hold >>>= bits & 7;
   bits -= bits & 7;
   //---/
   //=== NEEDBITS(32); */
   while (bits < 32) {
      if (have === 0) { break inf_leave; }
      have--;
      hold += input[next++] << bits;
      bits += 8;
   }
   //===/
   if ((hold & 0xffff) !== ((hold >>> 16) ^ 0xffff)) {
      strm.msg = 'invalid stored block lengths';
      state.mode = BAD;
      break;
   }
state.length = hold & 0xffff;
   //Tracev((stderr, "inflate: stored length %u\n",
   //        state.length));
   //=== INITBITS();
   hold = 0;
   bits = 0;
   //====
   state.mode = COPY_;
if (flush === Z_TREES) { break inf_leave; }
/* falls through */
case COPY_:
    state.mode = COPY;
    /* falls through */
case COPY:
    copy = state.length;
    if (copy) {
        if (copy > have) { copy = have; }
        if (copy > left) { copy = left; }
        if (copy === 0) { break inf_leave; }
        //--- zmemcpy(put, next, copy); ---
        utils.arraySet(output, input, next, copy, put);
        //---//
        have -= copy;
        next += copy;
        left -= copy;
        put += copy;
        state.length -= copy;
        break;
    }
    //Tracev((stderr, "inflate:       stored end\n"));
    state.mode = TYPE;
    break;
case TABLE:
    //=== NEEDBITS(14); */
    while (bits < 14) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===//
    state.nlen = (hold & 0x1f)*BITS(5)* + 257;
    //=== DROPBITS(5) ---//=
    hold >>>= 5;
    bits -= 5;
    //===//=
    state.ndist = (hold & 0x1f)*BITS(5)* + 1;
    //=== DROPBITS(5) ---//=
    hold >>>= 5;
    bits -= 5;
    //===//=
    state.ncode = (hold & 0x0f)*BITS(4)* + 4;
    //=== DROPBITS(4) ---//=
    hold >>>= 4;
    bits -= 4;
    //===//=
```c
#ifndef PKZIP_BUG_WORKAROUND
if (state.nlen > 286 || state.ndist > 30) {
    strm.msg = 'too many length or distance symbols';
    state.mode = BAD;
    break;
}
#endif

//Tracev((stderr, "inflate:     table sizes ok\n"));
state.have = 0;
state.mode = LENLENS;
/* falls through */
case LENLENS:
    while (state.have < state.ncode) {
        //== NEEDBITS(3);
        while (bits < 3) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //==//
        state.lens[order[state.have++]] = (hold & 0x07); //BITS(3);
        //--- DROPBITS(3) ---//
        hold >>= 3;
        bits -= 3;
        //---//
    }
    while (state.have < 19) {
        state.lens[order[state.have++]] = 0;
    }
    // We have separate tables & no pointers. 2 commented lines below not needed.
    //state.next = state.codes;
    //state.lencode = state.next;
    // Switch to use dynamic table
    state.lencode = state.lendyn;
    state.lenbits = 7;

    opts = { bits: state.lenbits };
    ret = inflate_table(CODES, state.lens, 0, 19, state.lencode, 0, state.work, opts);
    state.lenbits = opts.bits;

    if (ret) {
        strm.msg = 'invalid code lengths set';
        state.mode = BAD;
        break;
    }
    //Tracev((stderr, "inflate:     code lengths ok\n"));
    state.have = 0;
```
state.mode = CODELENS;
/* falls through */
case CODELENS:
while (state.have < state.nlen + state.ndist) {
    for (;;) {
        here = state.lencode[hold & ((1 << state.lenbits) - 1)]; /*BITS(state.lenbits)*/
        here_bits = here >> 24;
        here_op = (here >> 16) & 0xff;
        here_val = here & 0xffff;
        if ((here_bits) <= bits) { break; }
        //--- PULLBYTE() ---//
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
        //---//
    }
    if (here_val < 16) {
        //--- DROPBITS(here.bits) ---//
        hold >>= here_bits;
        bits -= here_bits;
        //---//
        state.lens[state.have++] = here_val;
    } else {
        if (here_val === 16) {
            //=== NEEDBITS(here.bits + 2);
            n = here_bits + 2;
            while (bits < n) {
                if (have === 0) { break inf_leave; }
                have--;
                hold += input[next++] << bits;
                bits += 8;
            }
            //===//
            //--- DROPBITS(here.bits) ---//
            hold >>= here_bits;
            bits -= here_bits;
            //---//
            if (state.have === 0) {
                strm.msg = 'invalid bit length repeat';
                state.mode = BAD;
                break;
            }
        }
        len = state.lens[state.have - 1];
        copy = 3 + (hold & 0x03); /*BITS(2);*/
        //--- DROPBITS(2) ---//
hold >>= 2;
bits -= 2;
//---//
}
else if (here_val === 17) {
    //== NEEDBITS(here.bits + 3);
    n = here_bits + 3;
    while (bits < n) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===
    //--- DROPBITS(here.bits) ---/
    hold >>= here_bits;
    bits -= here_bits;
    //---//
    len = 0;
    copy = 3 + (hold & 0x07);//BITS(3);
    //--- DROPBITS(3) ---/
    hold >>= 3;
    bits -= 3;
    //---//
}
else {
    //== NEEDBITS(here.bits + 7);
    n = here_bits + 7;
    while (bits < n) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===
    //--- DROPBITS(here.bits) ---/
    hold >>= here_bits;
    bits -= here_bits;
    //---//
    len = 0;
    copy = 11 + (hold & 0x7f);//BITS(7);
    //--- DROPBITS(7) ---/
    hold >>= 7;
    bits -= 7;
    //---//
}
if (state.have + copy > state.nlen + state.ndist) {
    strm.msg = 'invalid bit length repeat';
}
state.mode = BAD;
break;
}
while (copy--) {
    state.lens[state.have++] = len;
}
/* handle error breaks in while */
if (state.mode === BAD) { break; }

/* check for end-of-block code (better have one) */
if (state.lens[256] === 0) {
    strm.msg = 'invalid code -- missing end-of-block';
    state.mode = BAD;
    break;
}

/* build code tables -- note: do not change the lenbits or distbits
   values here (9 and 6) without reading the comments in inftrees.h
   concerning the ENOUGH constants, which depend on those values */
state.lenbits = 9;

opts = { bits: state.lenbits };
ret = inflate_table(LENS, state.lens, 0, state.nlen, state.lencode, 0, state.work, opts);
// We have separate tables & no pointers. 2 commented lines below not needed.
// state.next_index = opts.table_index;
state.lenbits = opts.bits;
// state.lencode = state.next;

if (ret) {
    strm.msg = 'invalid literal/lengths set';
    state.mode = BAD;
    break;
}
state.distbits = 6;
//state.distcode.copy(state.codes);
// Switch to use dynamic table
state.distcode = state.distdyn;
opts = { bits: state.distbits };
ret = inflate_table(DISTS, state.lens, state.nlen, state.ndist, state.distcode, 0, state.work, opts);
// We have separate tables & no pointers. 2 commented lines below not needed.
// state.next_index = opts.table_index;
state.distbits = opts.bits;
// state.distcode = state.next;
if (ret) {
    strm.msg = 'invalid distances set';
    state.mode = BAD;
    break;
}

//Tracev((stderr, 'inflate:   codes ok\n'));
state.mode = LEN_;
if (flush === Z_TREES) { break inf_leave; }
/* falls through */
case LEN_:
    state.mode = LEN;
    /* falls through */
case LEN:
    if (have >= 6 && left >= 258) {
        //--- RESTORE() ---
        strm.next_out = put;
        strm.avail_out = left;
        strm.next_in = next;
        strm.avail_in = have;
        state.hold = hold;
        state.bits = bits;
        //---
        inflate_fast(strm, _out);
        //--- LOAD() ---
        put = strm.next_out;
        output = strm.output;
        left = strm.avail_out;
        next = strm.next_in;
        input = strm.input;
        have = strm.avail_in;
        hold = state.hold;
        bits = state.bits;
        //---

        if (state.mode === TYPE) {
            state.back = -1;
        }
        break;
    }
    state.back = 0;
    for (;;) {
        here = state.lencode[hold & ((1 << state.lenbits) - 1)]; /*BITS(state.lenbits)*/
        here_bits = here >>> 24;
        here_op = (here >>> 16) & 0xff;
        here_val = here & 0xffff;

        if (here_bits <= bits) { break; }
    //--- PULLBYTE() ---*/

if (have === 0) { break inf_leave; }
have--;
hold += input[next++] << bits;
bits += 8;
//---/
}
if (here_op && (here_op & 0xf0) === 0) {
last_bits = here_bits;
last_op = here_op;
last_val = here_val;
for (;;) {
    here = state.lencode[last_val +
        ((hold & ((1 << (last_bits + last_op)) - 1))/*BITS(last.bits + last.op)*/ >> last_bits)];
    here_bits = here >>> 24;
    here_op = (here >>> 16) & 0xff;
    here_val = here & 0xffff;
    if ((last_bits + here_bits) <= bits) { break; }
    //--- PULLBYTE() ---/
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
    //---/
}
//--- DROPBITS(last.bits) ---/
hold >>>= last_bits;
bits -= last_bits;
//---
state.back += last_bits;
}
//--- DROPBITS(here.bits) ---/
hold >>>= here_bits;
bits -= here_bits;
//---
state.back += here_bits;
state.length = here_val;
if (here_op === 0) {
    //Tracevv((stderr, here.val >= 0x20 && here.val < 0x7f ?
        "inflate:        literal '%c'
" : 
        "inflate:        literal 0x%02x
", here.val));
    state.mode = LIT;
    break;
}
if (here_op & 32) {
    //Tracevv((stderr, "inflate:        end of block\n"));
    state.back = -1;
    state.mode = TYPE;
break;
}

if (here_op & 64) {
    strm.msg = 'invalid literal/length code';
    state.mode = BAD;
    break;
}

state.extra = here_op & 15;
state.mode = LENEXT;
/* falls through */
case LENEXT:
    if (state.extra) {
        ///== NEEDBITS(state.extra);
        n = state.extra;
        while (bits < n) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        ///==//
        state.length += hold & ((1 << state.extra) - 1)/BITS(state.extra)*/;
        ///--- DROPBITS(state.extra) ---//
        hold >>= state.extra;
        bits -= state.extra;
        ///---//
        state.back += state.extra;
    }
    //Tracevv((stderr, "inflate:         length %u\n", state.length));
    state.was = state.length;
    state.mode = DIST;
    /* falls through */
case DIST:
    for (;;) {
        here = state.distcode[hold & ((1 << state.distbits) - 1)];/BITS(state.distbits)*/
        here_bits = here >>> 24;
        here_op = (here >>> 16) & 0xff;
        here_val = here & 0xffff;

        if ((here_bits) <= bits) { break; }
        ///--- PULLBYTE() ---//
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
        ///---//
    }
    if ((here_op & 0xf0) === 0) {

last_bits = here_bits;
last_op = here_op;
last_val = here_val;
for (;;) {
    here = state.distcode[last_val +
        ((hold & ((1 << (last_bits + last_op)) - 1)) /*BITS(last.bits + last.op)*/ >> last_bits)];
    here_bits = here >>> 24;
    here_op = (here >>> 16) & 0xff;
    here_val = here & 0xffff;
    if ((last_bits + here_bits) <= bits) { break; }
    //--- PULLBYTE() ---/
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
    //---//--
}
    //--- DROPBITS(last.bits) ---/
    hold >>>= last_bits;
    bits -= last_bits;
    //---/--
    state.back += last_bits;
}
//--- DROPBITS(here.bits) ---/
hold >>>= here_bits;
bits -= here_bits;
//---/--
state.back += here_bits;
if (here_op & 64) {
    strm.msg = 'invalid distance code';
    state.mode = BAD;
    break;
}
state.offset = here_val;
state.extra = (here_op) & 15;
state.mode = DISTEXT;
/* falls through */
case DISTEXT:
    if (state.extra) {
        //== NEEDBITS(state.extra);
        n = state.extra;
        while (bits < n) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
state.offset += hold & ((1 << state.extra) - 1)/BITS(state.extra);

--- DROPBITS(state.extra) ---
hold >>= state.extra;
bits -= state.extra;
---
state.back += state.extra;
}

#ifdef INFLATE_STRICT
if (state.offset > state.dmax) {
    strm.msg = 'invalid distance too far back';
    state.mode = BAD;
    break;
}
#endif

//Tracevv((stderr, "inflate:         distance %u\n", state.offset));
state.mode = MATCH;
/* falls through */
case MATCH:
if (left === 0) { break inf_leave; }
copy = _out - left;
if (state.offset > copy) { /* copy from window */
copy = state.offset - copy;
if (copy > state.whave) {
    if (state.sane) {
        strm.msg = 'invalid distance too far back';
        state.mode = BAD;
        break;
    }
}
// (!) This block is disabled in zlib defaults,
// don't enable it for binary compatibility
#ifdef INFLATE_ALLOW_INVALID_DISTANCE_TOOFAR_ARRR
// Trace(stderr, "inflate.c too far\n");
// copy = state.whave;
// if (copy > state.length) { copy = state.length; }
// if (copy > left) { copy = left; }
// left -= copy;
// state.length -= copy;
// do {
//   output[put++] = 0;
// } while (~copy);
// if (state.length === 0) { state.mode = LEN; }
// break;
#endif
if (copy > state.wnext) {
copy -= state.wnext;
from = state.wsize - copy;
}
else {
  from = state.wnext - copy;
}
if (copy > state.length) { copy = state.length; }
from_source = state.window;
} else {
  /* copy from output */
  from_source = output;
  from = put - state.offset;
  copy = state.length;
}
if (copy > left) { copy = left; }
left -= copy;
state.length -= copy;
do {
  output[put++] = from_source[from++];
} while (--copy);
if (state.length === 0) { state.mode = LEN; }
break;
case LIT:
  if (left === 0) { break inf_leave; }
  output[put++] = state.length;
  left--;
  state.mode = LEN;
  break;
case CHECK:
  if (state.wrap) {
   //=== NEEDBITS(32);
    while (bits < 32) {
      if (have === 0) { break inf_leave; }
      have--;
      // Use '|' instead of '+' to make sure that result is signed
      hold |= input[next++] << bits;
      bits += 8;
    }
   //===//
    _out -= left;
    strm.total_out += _out;
    state.total += _out;
    if (_out) {
      strm.adler = state.check =
      /*UPDATE(state.check, put - _out, _out):*/
      (state.flags ? crc32(state.check, output, _out, put - _out) : adler32(state.check, output, _out, put - _out));
    }
  }
  _out = left;
  // NB: crc32 stored as signed 32-bit int, zswap32 returns signed too
if ((state.flags ? hold : zswap32(hold)) !== state.check) {
  strm.msg = 'incorrect data check';
  state.mode = BAD;
  break;
}
//=== INITBITS();
hold = 0;
bits = 0;
//===//
//Tracev((stderr, "inflate: check matches trailer\n"));
}
state.mode = LENGTH;
/* falls through */
case LENGTH:
  if (state.wrap && state.flags) {
   //=== NEEDBITS(32);
    while (bits < 32) {
      if (have === 0) { break inf_leave; }
      have--;
      hold += input[next++] << bits;
      bits += 8;
    }
   //===//
    if (hold !== (state.total & 0xffffffff)) {
      strm.msg = 'incorrect length check';
      state.mode = BAD;
      break;
    }
   //=== INITBITS();
    hold = 0;
    bits = 0;
   //===//
    //Tracev((stderr, "inflate: length matches trailer\n"));
  }
  state.mode = DONE;
  /* falls through */
case DONE:
  ret = Z_STREAM_END;
  break inf_leave;
case BAD:
  ret = Z_DATA_ERROR;
  break inf_leave;
case MEM:
  return Z_MEM_ERROR;
case SYNC:
  /* falls through */
default:
  return Z_STREAM_ERROR;
// inf_leave <- here is real place for "goto inf_leave", emulated via "break inf_leave"

/*
Return from inflate(), updating the total counts and the check value.
If there was no progress during the inflate() call, return a buffer
error. Call updatewindow() to create and/or update the window state.
Note: a memory error from inflate() is non-recoverable.
*/

//--- RESTORE() ---
strm.next_out = put;
strm.avail_out = left;
strm.next_in = next;
strm.avail_in = have;
state.hold = hold;
state.bits = bits;
//---

if (state.wsize || (_out !== strm.avail_out && state.mode < BAD &&
 (state.mode < CHECK || flush !== Z_FINISH)))) {
 if (updatewindow(strm, strm.output, strm.next_out, _out - strm.avail_out)) {
 state.mode = MEM;
 return Z_MEM_ERROR;
 }
 _in -= strm.avail_in;
 _out -= strm.avail_out;
 strm.total_in += _in;
 strm.total_out += _out;
 state.total += _out;
 if (state.wrap & & _out) {
 strm.adler = state.check = /*UPDATE(state.check, strm.next_out - _out, _out);*/
 (state.flags ? crc32(state.check, output, _out, strm.next_out - _out) : adler32(state.check, output, _out,
 strm.next_out - _out));
 }
 strm.data_type = state.bits + (state.last ? 64 : 0) +
 (state.mode == TYPE ? 128 : 0) +
 (state.mode == LEN_ || state.mode == COPY_ ? 256 : 0);
 if (((_in == 0 && _out == 0) || flush == Z_FINISH) && ret == Z_OK) {
 ret = Z_BUF_ERROR;
 }
 return ret;
}

function inflateEnd(strm) {
if (!strm || strm.state || strm->zfree == (free_func)0) {
    return Z_STREAM_ERROR;
}

var state = strm.state;
if (state.window) {
    state.window = null;
}
strm.state = null;
return Z_OK;

function inflateGetHeader(strm, head) {
    var state;

    /* check state */
    if (!strm || strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    if ((state.wrap & 2) === 0) { return Z_STREAM_ERROR; }

    /* save header structure */
    state.head = head;
    head.done = false;
    return Z_OK;
}

function inflateSetDictionary(strm, dictionary) {
    var dictLength = dictionary.length;

    var state;
    var dictid;
    var ret;

    /* check state */
    if (!strm || strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    if (state.wrap !== 0 && state.mode !== DICT) {
        return Z_STREAM_ERROR;
    }

    /* check for correct dictionary identifier */
    if (state.mode === DICT) {
        dictid = 1; /* adler32(0, null, 0)*/
        /* dictid = adler32(dictid, dictionary, dictLength); */
        dictid = adler32(dictid, dictionary, dictLength, 0);
        if (dictid !== state.check) {
return Z_DATA_ERROR;
}
/* copy dictionary to window using updatewindow(), which will amend the
existing dictionary if appropriate */
ret = updatewindow(strm, dictionary, dictLength, dictLength);
if (ret) {
    state.mode = MEM;
    return Z_MEM_ERROR;
}
state.havedict = 1;
// Tracev((stderr, "inflate: dictionary set\n"));
return Z_OK;
}
exports.inflateReset = inflateReset;
eexports.inflateReset2 = inflateReset2;
eexports.inflateResetKeep = inflateResetKeep;
eexports.inflateInit = inflateInit;
eexports.inflateInit2 = inflateInit2;
eexports.inflate = inflate;
eexports.inflateEnd = inflateEnd;
eexports.inflateGetHeader = inflateGetHeader;
eexports.inflateSetDictionary = inflateSetDictionary;
eexports.inflateInfo = 'pako inflate (from Nodeca project)';
/* Not implemented
exports.inflateCopy = inflateCopy;
eexports.inflateGetDictionary = inflateGetDictionary;
eexports.inflateMark = inflateMark;
eexports.inflatePrime = inflatePrime;
eexports.inflateSync = inflateSync;
eexports.inflateSyncPoint = inflateSyncPoint;
eexports.inflateUndermine = inflateUndermine;
*/
},
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var utils = require('./utils/common');

var MAXBITS = 15;
var ENOUGH_LEN = 852;
var ENOUGH_DIST = 592;
var ENOUGH = (ENOUGH_LEN + ENOUGH_DIST);

var CODES = 0;
var LENS = 1;
var DIST = 2;

var lbase = [ /* Length codes 257..285 base */
  3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 15, 17, 19, 23, 27, 31,
  35, 43, 51, 59, 67, 83, 99, 115, 131, 163, 195, 227, 258, 0, 0 ];

var lext = [ /* Length codes 257..285 extra */
  16, 16, 16, 16, 16, 16, 16, 16, 17, 17, 17, 17, 18, 18, 18,
  19, 19, 19, 19, 20, 20, 20, 20, 21, 21, 21, 21, 16, 72, 78 ];

var dbase = [ /* Distance codes 0..29 base */
  1, 2, 3, 4, 5, 7, 9, 13, 17, 25, 33, 49, 65, 97, 129, 193,
  257, 385, 513, 769, 1025, 1537, 2049, 3073, 4097, 6145,
  8193, 12289, 16385, 24577, 0, 0 ];

var dext = [ /* Distance codes 0..29 extra */
  16, 16, 16, 16, 17, 17, 18, 18, 19, 19, 20, 20, 21, 21, 22, 22,
  23, 23, 24, 24, 25, 25, 26, 26, 27, 27,
  28, 29, 29, 64, 64 ];

module.exports = function inflate_table(type, lens, lens_index, codes, table, table_index, work, opts)
{
  var bits = opts.bits;
  //here = opts.here; /* table entry for duplication */
var len = 0;       /* a code's length in bits */
var sym = 0;       /* index of code symbols */
var min = 0, max = 0;       /* minimum and maximum code lengths */
var root = 0;       /* number of index bits for root table */
var curr = 0;       /* number of index bits for current table */
var drop = 0;       /* code bits to drop for sub-table */
var left = 0;       /* number of prefix codes available */
var used = 0;       /* code entries in table used */
var huff = 0;       /* Huffman code */
var incr;          /* for incrementing code, index */
var fill;          /* index for replicating entries */
var low;           /* low bits for current root entry */
var mask;          /* mask for low root bits */
var next;          /* next available space in table */
var base = null;   /* base value table to use */
var base_index = 0;
//  var shoextra;    /* extra bits table to use */
var end;           /* use base and extra for symbol > end */
var count = new utils.Buf16(MAXBITS + 1); // [MAXBITS+1];    /* number of codes of each length */
var offs = new utils.Buf16(MAXBITS + 1); // [MAXBITS+1];     /* offsets in table for each length */
var extra = null;
var extra_index = 0;

var here_bits, here_op, here_val;

/*
   Process a set of code lengths to create a canonical Huffman code. The
code lengths are lens[0..codes-1]. Each length corresponds to the
symbols 0..codes-1. The Huffman code is generated by first sorting the
symbols by length from short to long, and retaining the symbol order
for codes with equal lengths. Then the code starts with all zero bits
for the first code of the shortest length, and the codes are integer
increments for the same length, and zeros are appended as the length
increases. For the deflate format, these bits are stored backwards
from their more natural integer increment ordering, and so when the
decoding tables are built in the large loop below, the integer codes
are incremented backwards.

This routine assumes, but does not check, that all of the entries in
lens[] are in the range 0..MAXBITS. The caller must assure this.
1..MAXBITS is interpreted as that code length. zero means that that
symbol does not occur in this code.

The codes are sorted by computing a count of codes for each length,
creating from that a table of starting indices for each length in the
sorted table, and then entering the symbols in order in the sorted
table. The sorted table is work[], with that space being provided by
the caller.

The length counts are used for other purposes as well, i.e. finding the minimum and maximum length codes, determining if there are any codes at all, checking for a valid set of lengths, and looking ahead at length counts to determine sub-table sizes when building the decoding tables.

/*

/* accumulate lengths for codes (assumes lens[] all in 0..MAXBITS) */
for (len = 0; len <= MAXBITS; len++) {
    count[len] = 0;
}
for (sym = 0; sym < codes; sym++) {
    count[lens[lens_index + sym]]++;
}

/* bound code lengths, force root to be within code lengths */
root = bits;
for (max = MAXBITS; max >= 1; max--) {
    if (count[max] !== 0) { break; }
}
if (root > max) {
    root = max;
}
if (max === 0) {                     /* no symbols to code at all */
    table.op[opts.table_index] = 64;  //here.op = (var char)64;  /* invalid code marker */
    table.bits[opts.table_index] = 1;   //here.bits = (var char)1;
    table.val[opts.table_index++] = 0;   //here.val = (var short)0;
    table[table_index++] = (1 << 24) | (64 << 16) | 0;
}

//table.op[opts.table_index] = 64;
//table.bits[opts.table_index] = 1;
//table.val[opts.table_index++] = 0;
//table[table_index++] = (1 << 24) | (64 << 16) | 0;

    opts.bits = 1;
    return 0;    /* no symbols, but wait for decoding to report error */
}
for (min = 1; min < max; min++) {
    if (count[min] !== 0) { break; }
}
if (root < min) {
    root = min;
}

/* check for an over-subscribed or incomplete set of lengths */
```c
left = 1;
for (len = 1; len <= MAXBITS; len++) {
    left <<= 1;
    left -= count[len];
    if (left < 0) {
        return -1;
    } /* over-subscribed */
}
if (left > 0 && (type === CODES || max !== 1)) {
    return -1; /* incomplete set */
}
/* generate offsets into symbol table for each length for sorting */
offs[1] = 0;
for (len = 1; len < MAXBITS; len++) {
    offs[len + 1] = offs[len] + count[len];
}
/* sort symbols by length, by symbol order within each length */
for (sym = 0; sym < codes; sym++) {
    if (lens[lens_index + sym] !== 0) {
        work[offs[lens[lens_index + sym]]++] = sym;
    }
}

/* Create and fill in decoding tables. In this loop, the table being
filled is at next and has curr index bits. The code being used is huff
with length len. That code is converted to an index by dropping drop
bits off of the bottom. For codes where len is less than drop + curr,
those top drop + curr - len bits are incremented through all values to
fill the table with replicated entries.

root is the number of index bits for the root table. When len exceeds
root, sub-tables are created pointed to by the root entry with an index
of the low root bits of huff. This is saved in low to check for when a
new sub-table should be started. drop is zero when the root table is
being filled, and drop is root when sub-tables are being filled.

When a new sub-table is needed, it is necessary to look ahead in the
code lengths to determine what size sub-table is needed. The length
counts are used for this, and so count[] is decremented as codes are
entered in the tables.

used keeps track of how many table entries have been allocated from the
provided *table space. It is checked for LENS and DIST tables against
the constants ENOUGH_LENS and ENOUGH_DISTS to guard against changes in
the initial root table size constants. See the comments in inftrees.h
```
sym increments through all symbols, and the loop terminates when all codes of length max, i.e. all codes, have been processed. This routine permits incomplete codes, so another loop after this one fills in the rest of the decoding tables with invalid code markers.

/* */

/* set up for code type */

/* poor man optimization - use if-else instead of switch, */
// to avoid deopts in old v8

if (type === CODES) {
    base = extra = work;  /* dummy value--not used */
    end = 19;
}

} else if (type === LENS) {
    base = lbase;
    base_index = -257;
    extra = lext;
    extra_index = -257;
    end = 256;
}

} else {
    /* DISTS */
    base = dbase;
    extra = dext;
    end = -1;
}

/* initialize opts for loop */

huff = 0;  /* starting code */
sym = 0;  /* starting code symbol */
len = min;  /* starting code length */
next = table_index;  /* current table to fill in */
curr = root;  /* current table index bits */
drop = 0;  /* current bits to drop from code for index */
low = -1;  /* trigger new sub-table when len > root */
used = 1 << root;  /* use root table entries */
mask = used - 1;  /* mask for comparing low */

/* check available table space */

if ((type === LENS & used > ENOUGH_LENS) ||
    (type === DISTS & used > ENOUGH_DISTS)) {
    return 1;
}

/* process all codes and make table entries */

for (;;) {
    /* create table entry */
here_bits = len - drop;
if (work[sym] < end) {
    here_op = 0;
    here_val = work[sym];
}
else if (work[sym] > end) {
    here_op = extra[extra_index + work[sym]];
    here_val = base[base_index + work[sym]];
}
else {
    here_op = 32 + 64; /* end of block */
    here_val = 0;
}

/* replicate for those indices with low len bits equal to huff */
incr = 1 << (len - drop);
fill = 1 << curr;
min = fill; /* save offset to next table */
do {
    fill -= incr;
    table[next + (huff >> drop) + fill] = (here_bits << 24) | (here_op << 16) | here_val | 0;
} while (fill != 0);

/* backwards increment the len-bit code huff */
incr = 1 << (len - 1);
while (huff & incr) {
    incr >>= 1;
}
if (incr != 0) {
    huff &= incr - 1;
    huff += incr;
} else {
    huff = 0;
}

/* go to next symbol, update count, len */
sym++;
if (--count[len] == 0) {
    if (len == max) { break; }
    len = lens[lens_index + work[sym]];
}

/* create new sub-table if needed */
if (len > root && (huff & mask) != low) {
    /* if first time, transition to sub-tables */
    if (drop == 0) {
        drop = root;
    }
/* increment past last table */
next += min;   /* here min is 1 << curr */

/* determine length of next table */
curr = len - drop;
left = 1 << curr;
while (curr + drop < max) {
    left -= count[curr + drop];
    if (left <= 0) { break; }
curr++;
    left <<= 1;
}

/* check for enough space */
used += 1 << curr;
if ((type === LENS && used > ENOUGH_LENS) ||
    (type === DISTS && used > ENOUGH_DISTS)) {
    return 1;
}

/* point entry in root table to sub-table */
low = huff & mask;
/*table.op[low] = curr;
    table.bits[low] = root;
    table.val[low] = next - opts.table_index;*/
    table[low] = (root << 24) | (curr << 16) | (next - table_index) |0;
}

/* fill in remaining table entry if code is incomplete (guaranteed to have
at most one remaining entry, since if the code is incomplete, the
maximum code length that was allowed to get this far is one bit) */
if (huff !== 0) {
    //table.op[next + huff] = 64;   /* invalid code marker */
    //table.bits[next + huff] = len - drop;
    //table.val[next + huff] = 0;
    table[next + huff] = ((len - drop) << 24) | (64 << 16) |0;
}

/* set return parameters */
//opts.table_index += used;
opts.bits = root;
return 0;
};
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var util = require('./util/common');

/* Public constants */

/* Possible values of the data_type field (though see inflate) */

function zero(buf) {
    var len = buf.length;
    while (--len > 0) { buf[len] = 0; }
}

var STORED_BLOCK = 0;
var STATIC_TREES = 1;
var DYN_TREES = 2;

var MIN_MATCH = 3;
var MAX_MATCH = 258;

/* number of length codes, not counting the special END_BLOCK code */
var LITERALS = 256;
/* number of literal bytes 0..255 */

var L_CODES = LITERALS + 1 + LENGTH_CODES;
/* number of Literal or Length codes, including the END_BLOCK code */

var D_CODES = 30;
/* number of distance codes */

var BL_CODES = 19;
/* number of codes used to transfer the bit lengths */

var HEAP_SIZE = 2 * L_CODES + 1;
/* maximum heap size */

var MAX_BITS = 15;
/* All codes must not exceed MAX_BITS bits */

var Buf_size = 16;
/* size of bit buffer in bi_buf */

/* ===========================================================================
* Constants
* /

var MAX_BL_BITS = 7;
/* Bit length codes must not exceed MAX_BL_BITS bits */

var END_BLOCK = 256;
/* end of block literal code */

var REP_3_6 = 16;
/* repeat previous bit length 3-6 times (2 bits of repeat count) */

var REPZ_3_10 = 17;
/* repeat a zero length 3-10 times (3 bits of repeat count) */

var REPZ_11_138 = 18;
/* repeat a zero length 11-138 times (7 bits of repeat count) */

/* eslint-disable comma-spacing,array-bracket-spacing */
var extra_lbits = /* extra bits for each length code */
[0,0,0,0,0,0,0,0,1,1,1,1,1,2,2,2,2,3,3,3,3,4,4,4,4,4,5,5,5,5,6,6,6,6,7,7,7,7,8,8,8,8,9,9,9,9,10,10,10,10,11,11,11,12,12,12,13,13];

var extra_dbits = /* extra bits for each distance code */
[0,0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13];
var extra_blbits = /* extra bits for each bit length code */
[0,0,0,0,0,0,0,0,0,0,0,0,0,2,3,7];

var bl_order =
[16,17,18,0,8,7,9,6,10,5,11,4,12,3,13,2,14,1,15];

/* The lengths of the bit length codes are sent in order of decreasing probability, to avoid transmitting the lengths for unused bit length codes. */

/* Local data. These are initialized only once. */

// We pre-fill arrays with 0 to avoid uninitialized gaps

var DIST_CODE_LEN = 512; /* see definition of array dist_code below */

// !!! Use flat array instead of structure. Freq = i*2, Len = i*2+1
var static_ltree = new Array((L_CODES + 2) * 2);
zero(static_ltree);
/* The static literal tree. Since the bit lengths are imposed, there is no need for the L_CODES extra codes used during heap construction. However the codes 286 and 287 are needed to build a canonical tree (see _tr_init below). */

var static_dtree = new Array(D_CODES * 2);
zero(static_dtree);
/* The static distance tree. (Actually a trivial tree since all codes use * 5 bits.) */

var _dist_code = new Array(DIST_CODE_LEN);
zero(_dist_code);
/* Distance codes. The first 256 values correspond to the distances * 3 .. 258, the last 256 values correspond to the top 8 bits of * the 15 bit distances. */

var _length_code = new Array(MAX_MATCH - MIN_MATCH + 1);
zero(_length_code);
/* length code for each normalized match length (0 == MIN_MATCH) */

var base_length = new Array(LENGTH_CODES);
zero(base_length);
/* First normalized length for each code (0 = MIN_MATCH) */
var base_dist = new Array(D_CODES);
zero(base_dist);
/* First normalized distance for each code (0 = distance of 1) */

function StaticTreeDesc(static_tree, extra_bits, extra_base, elems, max_length) {
  this.static_tree = static_tree; /* static tree or NULL */
  this.extra_bits = extra_bits;  /* extra bits for each code or NULL */
  this.extra_base = extra_base;  /* base index for extra_bits */
  this.elems = elems;           /* max number of elements in the tree */
  this.max_length = max_length; /* max bit length for the codes */

  // show if `static_tree` has data or dummy - needed for monomorphic objects
  this.has_stree = static_tree && static_tree.length;
}

var static_l_desc;
var static_d_desc;
var static_bl_desc;

function TreeDesc(dyn_tree, stat_desc) {
  this.dyn_tree = dyn_tree;     /* the dynamic tree */
  this.max_code = 0;            /* largest code with non zero frequency */
  this.stat_desc = stat_desc;   /* the corresponding static tree */
}

function d_code(dist) {
  return dist < 256 ? _dist_code[dist] : _dist_code[256 + (dist >>> 7)];
}

/*==================================================================
* Output a short LSB first on the stream.
* IN assertion: there is enough room in pendingBuf.
* /
* function put_short(s, w) {
  // put_byte(s, (uch)((w) & 0xff));
  // put_byte(s, (uch)((ush)(w) >> 8));
  s.pending_buf[s.pending++] = (w) & 0xff;
  s.pending_buf[s.pending++] = (w >>> 8) & 0xff;
* }
/* ===========================================================================
* Send a value on a given number of bits.
* IN assertion: length <= 16 and value fits in length bits.
*/

function send_bits(s, value, length) {
    if (s.bi_valid > (Buf_size - length)) {
        s.bi_buf |= (value << s.bi_valid) & 0xffff;
        put_short(s, s.bi_buf);
        s.bi_buf = value >>> (Buf_size - s.bi_valid);
        s.bi_valid += length - Buf_size;
    } else {
        s.bi_buf |= (value << s.bi_valid) & 0xffff;
        s.bi_valid += length;
    }
}

function send_code(s, c, tree) {
    send_bits(s, tree[c * 2].Code, tree[c * 2 + 1].Len);
}

/* ===========================================================================
* Reverse the first len bits of a code, using straightforward code (a faster
* method would use a table)
* IN assertion: 1 <= len <= 15
*/

function bi_reverse(code, len) {
    var res = 0;
    do {
        res |= code & 1;
        code >>>= 1;
        res <<= 1;
    } while (--len > 0);
    return res >>> 1;
}

/* ===========================================================================
* Flush the bit buffer, keeping at most 7 bits in it.
*/

function bi_flush(s) {
    if (s.bi_valid === 16) {
        put_short(s, s.bi_buf);
        s.bi_buf = 0;
        s.bi_valid = 0;
    }
}
else if (s.bi_valid >= 8) {
    s.pending_buf[s.pending++] = s.bi_buf & 0xff;
    s.bi_buf >>= 8;
    s.bi_valid -= 8;
}
}

/* ===========================================================================
* Compute the optimal bit lengths for a tree and update the total bit length
* for the current block.
* IN assertion: the fields freq and dad are set, heap[heap_max] and
* above are the tree nodes sorted by increasing frequency.
* OUT assertions: the field len is set to the optimal bit length, the
* array bl_count contains the frequencies for each bit length.
* The length opt_len is updated; static_len is also updated if stree is
* not null.
*/

function gen_bitlen(s, desc)

    deflate_state *s;
    tree_desc *desc; /* the tree descriptor */
{
    var tree            = desc.dyn_tree;
    var max_code        = desc.max_code;
    var stree           = desc.stat_desc.static_tree;
    var has_stree       = desc.stat_desc.has_stree;
    var extra           = desc.stat_desc.extra_bits;
    var base            = desc.stat_desc.extra_base;
    var max_length      = desc.stat_desc.max_length;
    var h;              /* heap index */
    var n, m;           /* iterate over the tree elements */
    var bits;           /* bit length */
    var xbits;          /* extra bits */
    var f;              /* frequency */
    var overflow = 0;   /* number of elements with bit length too large */

    for (bits = 0; bits <= MAX_BITS; bits++) {
        s.bl_count[bits] = 0;
    }

    /* In a first pass, compute the optimal bit lengths (which may
     * overflow in the case of the bit length tree).
    */
    tree[s.heap[s.heap_max] * 2 + 1].Len*/ = 0; /* root of the heap */

    for (h = s.heap_max + 1; h < HEAP_MAX; h++) {
        n = s.heap[h];
        bits = tree[tree[n * 2 + 1].Dad*/ * 2 + 1].Len*/ + 1;
        
        /* ===========================================================================
        */
if (bits > max_length) {
    bits = max_length;
    overflow++;
}
tree[n * 2 + 1]/.Len/ = bits;
/* We overwrite tree[n].Dad which is no longer needed */

if (n > max_code) { continue; } /* not a leaf node */
s.bl_count[bits]++;
xbits = 0;
if (n >= base) {
    xbits = extra[n - base];
}
f = tree[n * 2]/.Freq/;
s.opt_len += f * (bits + xbits);
if (has_stree) {
    s.static_len += f * (stree[n * 2 + 1]/.Len/ + xbits);
}
}
if (overflow === 0) { return; }
// Trace((stderr,\"bit length overflow\n\n\"));
/* This happens for example on obj2 and pic of the Calgary corpus */

/* Find the first bit length which could increase: */
do {
    bits = max_length - 1;
    while (s.bl_count[bits] === 0) { bits--; }
    s.bl_count[bits]--; /* move one leaf down the tree */
    s.bl_count[bits + 1] += 2; /* move one overflow item as its brother */
    s.bl_count[max_length]--;
    /* The brother of the overflow item also moves one step up,
    * but this does not affect bl_count[max_length]
    */
    overflow -= 2;
} while (overflow > 0);
/* Now recompute all bit lengths, scanning in increasing frequency.
 * h is still equal to HEAP_SIZE. (It is simpler to reconstruct all
 * lengths instead of fixing only the wrong ones. This idea is taken
 * from 'ar' written by Haruhiko Okumura.)
 */
for (bits = max_length; bits !== 0; bits--) {
    n = s.bl_count[bits];
    while (n !== 0) {
        m = s.heap[--h];
        if (m > max_code) { continue; }
        }
if (tree[m * 2 + 1]/.Len*/ !== bits) {
    // Trace((stderr,"code %d bits %d->%d\n", m, tree[m].Len, bits));
    s.opt_len += (bits - tree[m * 2 + 1]/.Len*/) * tree[m * 2]/.Freq*/;
    tree[m * 2 + 1]/.Len*/ = bits;
}
}
}

/** * Generate the codes for a given tree and bit counts (which need not be * optimal). * IN assertion: the array bl_count contains the bit length statistics for * the given tree and the field len is set for all tree elements. * OUT assertion: the field code is set for all tree elements of non * zero code length. */

function gen_codes(tree, max_code, bl_count) {
    var next_code = new Array(MAX_BITS + 1); /* next code value for each bit length */
    var code = 0;              /* running code value */
    var bits;                  /* bit index */
    var n;                     /* code index */

    /* The distribution counts are first used to generate the code values * without bit reversal. */
    for (bits = 1; bits <= MAX_BITS; bits++) {
        next_code[bits] = code = (code + bl_count[bits - 1]) << 1;
    }

    /* Check that the bit counts in bl_count are consistent. The last code * must be all ones. */
    //Assert (code + bl_count[MAX_BITS]-1 == (1<<MAX_BITS)-1,
    //        "inconsistent bit counts");
    //Tracev((stderr,"gen_codes: max_code %d ", max_code));

    for (n = 0; n <= max_code; n++) {
        var len = tree[n * 2 + 1]/.Len*/;
        if (len === 0) { continue; }
        /* Now reverse the bits */
        tree[n * 2]/.Code*/ = bi_reverse(next_code[len]++, len);
    }
}
//Tracecv(tree != static_ltree, (stderr,"\nn %3d %c l %2d c %4x (%x) ",
  //    n, (isgraph(n) ? n : '), len, tree[n].Code, next_code[len]-1));
}
}

/* ==========================================================================
 * Initialize the various 'constant' tables.
 */
function tr_static_init() {
  var n;    /* iterates over tree elements */
  var bits; /* bit counter */
  var length; /* length value */
  var code; /* code value */
  var dist; /* distance index */
  var bl_count = new Array(MAX_BITS + 1);
  /* number of codes at each bit length for an optimal tree */

  // do check in _tr_init()
  //if (static_init_done) return;

  /* For some embedded targets, global variables are not initialized: */
  /*#ifdef NO_INIT_GLOBAL_POINTERS */
  static_l_desc.static_tree = static_ltree;
  static_l_desc.extra_bits = extra_lbits;
  static_d_desc.static_tree = static_dtree;
  static_d_desc.extra_bits = extra_dbits;
  static_bl_desc.extra_bits = extra_blbits;
  //endif*/

  /* Initialize the mapping length (0..255) -> length code (0..28) */
  length = 0;
  for (code = 0; code < LENGTH_CODES - 1; code++) {
    base_length[code] = length;
    for (n = 0; n < (1 << extra_lbits[code]); n++) {
      _length_code[length++] = code;
    }
  }
  //Assert (length == 256, "tr_static_init: length != 256");

  /* Initialize the mapping dist (0..32K) -> dist code (0..29) */
  dist = 0;
  for (code = 0; code < 16; code++) {

  /* Initialize the mapping dist (0..32K) -> dist code (0..29) */
base_dist[code] = dist;
for (n = 0; n < (1 << extra_dbits[code]); n++) {
    _dist_code[dist++] = code;
}
}

//Assert (dist == 256, "tr_static_init: dist != 256");
dist >>= 7; /* from now on, all distances are divided by 128 */
for (; code < D_CODES; code++) {
    base_dist[code] = dist << 7;
    for (n = 0; n < (1 << (extra_dbits[code] - 7)); n++) {
        _dist_code[256 + dist++] = code;
    }
}

//Assert (dist == 256, "tr_static_init: 256+dist != 512");

/* Construct the codes of the static literal tree */
for (bits = 0; bits <= MAX_BITS; bits++) {
    bl_count[bits] = 0;
}

n = 0;
while (n <= 143) {
    static_ltree[n * 2 + 1].Len = 8;
    n++;
    bl_count[8]++;
}
while (n <= 255) {
    static_ltree[n * 2 + 1].Len = 9;
    n++;
    bl_count[9]++;
}
while (n <= 279) {
    static_ltree[n * 2 + 1].Len = 7;
    n++;
    bl_count[7]++;
}
while (n <= 287) {
    static_ltree[n * 2 + 1].Len = 8;
    n++;
    bl_count[8]++;
}

/* Codes 286 and 287 do not exist, but we must include them in the * tree construction to get a canonical Huffman tree (longest code * all ones) */
gen_codes(static_ltree, L_CODES + 1, bl_count);

/* The static distance tree is trivial: */
for (n = 0; n < D_CODES; n++) {
    static_dtree[n * 2 + 1].Len*/ = 5;
    static_dtree[n * 2].Code*/ = bi_reverse(n, 5);
}

// Now data ready and we can init static trees
static_l_desc = new StaticTreeDesc(static_ltree, extra_lbits, LITERALS + 1, L_CODES, MAX_BITS);
static_d_desc = new StaticTreeDesc(static_dtree, extra_dbits, 0, D_CODES, MAX_BITS);
static_bl_desc = new StaticTreeDesc(new Array(0), extra_blbits, 0, BL_CODES, MAX_BL_BITS);
//static_init_done = true;
}

/* ==============================================================
* Initialize a new block.
* /{}
function init_block(s) {
    var n; /* iterates over tree elements */

    /* Initialize the trees. */
    for (n = 0; n < L_CODES;  n++) { s.dyn_ltree[n * 2].Freq*/ = 0; }
    for (n = 0; n < D_CODES;  n++) { s.dyn_dtree[n * 2].Freq*/ = 0; }
    for (n = 0; n < BL_CODES; n++) { s.bl_tree[n * 2].Freq*/ = 0; }

    s.dyn_ltree[END_BLOCK * 2].Freq*/ = 1;
    s.opt_len = s.static_len = 0;
    s.last_lit = s.matches = 0;
}

/* ==============================================================
* Flush the bit buffer and align the output on a byte boundary
* /{}
function bi_windup(s) {
    if (s.bi_valid > 8) {
        put_short(s, s.bi_buf);
    } else if (s.bi_valid > 0) {
        //put_byte(s, (Byte)s->bi_buf);
        s.pending_buf[s.pending++] = s.bi_buf;
    }
    s.bi_buf = 0;
    s.bi_valid = 0;
}

/* ==============================================================
* Copy a stored block, storing first the length and its
function copy_block(s, buf, len, header)
//DeflateState *s;
//charf    *buf;    /* the input data */
//unsigned len;     /* its length */
//int      header;  /* true if block header must be written */
{
    bi_windup(s);        /* align on byte boundary */

    if (header) {
        put_short(s, len);
        put_short(s, ~len);
    }
    // while (len--) {
    //    put_byte(s, *buf++);
    // }
    utils.arraySet(s.pending_buf, s.window, buf, len, s.pending);
    s.pending += len;
}

/* ===========================================================================
* Compares to subtrees, using the tree depth as tie breaker when
* the subtrees have equal frequency. This minimizes the worst case length.
*/
function smaller(tree, n, m, depth) {
    var _n2 = n * 2;
    var _m2 = m * 2;
    return (tree[_n2].Freq < tree[_m2].Freq ||
            (tree[_n2].Freq === tree[_m2].Freq && depth[n] <= depth[m]));
}

/* ===========================================================================
* Restore the heap property by moving down the tree starting at node k,
* exchanging a node with the smallest of its two sons if necessary, stopping
* when the heap property is re-established (each father smaller than its
* two sons).
*/
function pqdownheap(s, tree, k)
//    deflate_state *s;
//    ct_data *tree;  /* the tree to restore */
//    int k;               /* node to move down */
{
    var v = s.heap[k];
    var j = k << 1;   /* left son of k */
    while (j <= s.heap_len) {
        /* Set j to the smallest of the two sons: */
        if (j < s.heap_len &&
        /* one's complement if requested. */
        function copy_block(s, buf, len, header)
//DeflateState *s;
//charf    *buf;    /* the input data */
//unsigned len;     /* its length */
//int      header;  /* true if block header must be written */
{
    bi_windup(s);        /* align on byte boundary */

    if (header) {
        put_short(s, len);
        put_short(s, ~len);
    }
    // while (len--) {
    //    put_byte(s, *buf++);
    // }
    utils.arraySet(s.pending_buf, s.window, buf, len, s.pending);
    s.pending += len;
}

/* ===========================================================================
* Compares to subtrees, using the tree depth as tie breaker when
* the subtrees have equal frequency. This minimizes the worst case length.
*/
function smaller(tree, n, m, depth) {
    var _n2 = n * 2;
    var _m2 = m * 2;
    return (tree[_n2].Freq < tree[_m2].Freq ||
            (tree[_n2].Freq === tree[_m2].Freq && depth[n] <= depth[m]));
}

/* ===========================================================================
* Restore the heap property by moving down the tree starting at node k,
* exchanging a node with the smallest of its two sons if necessary, stopping
* when the heap property is re-established (each father smaller than its
* two sons).
*/
function pqdownheap(s, tree, k)
//    deflate_state *s;
//    ct_data *tree;  /* the tree to restore */
//    int k;               /* node to move down */
{
    var v = s.heap[k];
    var j = k << 1;   /* left son of k */
    while (j <= s.heap_len) {
        /* Set j to the smallest of the two sons: */
        if (j < s.heap_len &&

smaller(tree, s.heap[j + 1], s.heap[j], s.depth)) {
    j++;
}
/* Exit if v is smaller than both sons */
if (smaller(tree, v, s.heap[j], s.depth)) { break; }

/* Exchange v with the smallest son */
s.heap[k] = s.heap[j];
k = j;

/* And continue down the tree, setting j to the left son of k */
j <<= 1;
}
s.heap[k] = v;

// inlined manually
// var SMALLEST = 1;

/* ==============================================================
* Send the block data compressed using the given Huffman trees *
*/
function compress_block(s, ltree, dtree)
  //    deflate_state *s;
  //    const ct_data *ltree; /* literal tree */
  //    const ct_data *dtree; /* distance tree */
{
  var dist;       /* distance of matched string */
  var lc;         /* match length or unmatched char (if dist == 0) */
  var lx = 0;     /* running index in l_buf */
  var code;       /* the code to send */
  var extra;      /* number of extra bits to send */
  if (s.last_lit !== 0) {
    do {
      dist = (s.pending_buf[s.d_buf + lx * 2] << 8) | (s.pending_buf[s.d_buf + lx * 2 + 1]);
      lc = s.pending_buf[s.l_buf + lx];
      lx++;
      if (dist === 0) {
        send_code(s, lc, ltree); /* send a literal byte */
        //Tracecv(isgraph(lc), (stderr," '%c' ", lc));
      } else {
        /* Here, lc is the match length - MIN_MATCH */
        code = _length_code[lc];
        send_code(s, code + LITERALS + 1, ltree); /* send the length code */
        extra = extra_lbits[code];
      }
    } while (dist !== 0);
if (extra !== 0) {
    lc -= base_length[code];
    send_bits(s, lc, extra);  /* send the extra length bits */
}

if (extra !== 0) {
    lc -= base_length[code];
    send_bits(s, lc, extra);  /* send the extra length bits */
}

dist--; /* dist is now the match distance - 1 */
code = d_code(dist);
//Assert (code < D_CODES, "bad d_code");

send_code(s, code, dtree);  /* send the distance code */
extra = extra_dbits[code];
if (extra !== 0) {
    dist -= base_dist[code];
    send_bits(s, dist, extra);  /* send the extra distance bits */
} /* literal or match pair? */

/* Check that the overlay between pending_buf and d_buf+l_buf is ok: */
//Assert((uInt)(s->pending) < s->lit_bufsize + 2*lx,
//        "pendingBuf overflow");

} while (lx < s.last_lit);

send_code(s, END_BLOCK, ltree);

/* Construct one Huffman tree and assigns the code bit strings and lengths. */
/* Update the total bit length for the current block. */
/* IN assertion: the field freq is set for all tree elements. */
/* OUT assertions: the fields len and code are set to the optimal bit length */
/* and corresponding code. The length opt_len is updated; static_len is */
/* also updated if stree is not null. The field max_code is set. */
/* */
function build_tree(s, desc)
//    deflate_state *s;
//    tree_desc *desc; /* the tree descriptor */
{
    var tree     = desc.dyn_tree;
    var stree    = desc.stat_desc.static_tree;
    var has_stree = desc.stat_desc.has_stree;
    var elems    = desc.stat_desc.elems;
    var n, m;    /* iterate over heap elements */
    var max_code = -1; /* largest code with non zero frequency */
    var node;    /* new node being created */

    /* Construct the initial heap, with least frequent element in..."
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
s.heap_len = 0;
s.heap_max = HEAP_SIZE;

for (n = 0; n < elems; n++) {
    if (tree[n * 2]/*.Freq*/ !== 0) {
        s.heap[++s.heap_len] = max_code = n;
        s.depth[n] = 0;
    } else {
        tree[n * 2 + 1]/*.Len*/ = 0;
    }
}

/* The pkzip format requires that at least one distance code exists,
* and that at least one bit should be sent even if there is only one
* possible code. So to avoid special checks later on we force at least
* two codes of non zero frequency.
*/
while (s.heap_len < 2) {
    node = s.heap[++s.heap_len] = (max_code < 2 ? ++max_code : 0);
    tree[node * 2]/*.Freq*/ = 1;
    s.depth[node] = 0;
    s.opt_len--;
    if (has_stree) {
        s.static_len -= stree[node * 2 + 1]/*.Len*/;
    }
    /* node is 0 or 1 so it does not have extra bits */
}
desc.max_code = max_code;

/* The elements heap[heap_len/2+1 .. heap_len] are leaves of the tree,
* establish sub-heaps of increasing lengths:
*/
for (n = (s.heap_len >> 1/*int /2*/); n >= 1; n--) {pqdownheap(s, tree, n); }

/* Construct the Huffman tree by repeatedly combining the least two
* frequent nodes.
*/
node = elems;    /* next internal node of the tree */
do {
    //pqremove(s, tree, n); /* n = node of least frequency */
    /* pqremove */
    n = s.heap[1/*SMALLEST*/];
    s.heap[1/*SMALLEST*/] = s.heap[s.heap_len--];
pqdownheap(s, tree, 1/*SMALLEST*/);
/***

m = s.heap[1/*SMALLEST*/]; /* m = node of next least frequency */

s.heap[--s.heap_max] = n; /* keep the nodes sorted by frequency */
s.heap[--s.heap_max] = m;

/* Create a new node father of n and m */
tree[node * 2]/*.Freq*/ = tree[n * 2]/*.Freq*/ + tree[m * 2]/*.Freq*/;
s.depth[node] = (s.depth[n] >= s.depth[m] ? s.depth[n] : s.depth[m]) + 1;
tree[n * 2 + 1]/*.Dad*/ = tree[m * 2 + 1]/*.Dad*/ = node;

/* and insert the new node in the heap */
s.heap[1/*SMALLEST*/] = node++;
pqdownheap(s, tree, 1/*SMALLEST*/);
} while (s.heap_len >= 2);

s.heap[--s.heap_max] = s.heap[1/*SMALLEST*/];

/* At this point, the fields freq and dad are set. We can now
 * generate the bit lengths.
 */
gen_bitlen(s, desc);

/* The field len is now set, we can generate the bit codes */
gen_codes(tree, max_code, s.bl_count);
}

/*==================================================================
 * Scan a literal or distance tree to determine the frequencies of the codes
 * in the bit length tree.
 */
function scan_tree(s, tree, max_code)
//    deflate_state *s;
//    ct_data *tree; /* the tree to be scanned */
//    int max_code; /* and its largest code of non zero frequency */
{
    var n; /* iterates over all tree elements */
    var prevlen = -1; /* last emitted length */
    var curlen; /* length of current code */
    var nextlen = tree[0 * 2 + 1]/*.Len*/; /* length of next code */
    var count = 0; /* repeat count of the current code */
    var max_count = 7; /* max repeat count */
var min_count = 4; /* min repeat count */

if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}
tree[(max_code + 1) * 2 + 1]/.Len*/ = 0xffff; /* guard */

for (n = 0; n <= max_code; n++) {
    curlen = nextlen;
    nextlen = tree[(n + 1) * 2 + 1]/.Len*/;

    if (++count < max_count && curlen === nextlen) {
        continue;
    } else if (count < min_count) {
        s.bl_tree[curlen * 2]/.Freq*/ += count;
    } else if (curlen !== 0) {
        if (curlen !== prevlen) { s.bl_tree[curlen * 2]/.Freq*/++; }
        s.bl_tree[REP_3_6 * 2]/.Freq*/++;
    } else if (count <= 10) {
        s.bl_tree[REPZ_3_10 * 2]/.Freq*/++;
    } else {
        s.bl_tree[REPZ_11_138 * 2]/.Freq*/++;
    }
}

count = 0;
prevlen = curlen;

if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}
else if (curlen === nextlen) {
    max_count = 6;
    min_count = 3;
}
else {
    max_count = 7;
    min_count = 4;
}
}
/* ===========================================================================
 * Send a literal or distance tree in compressed form, using the codes in
 * bl_tree.
 */

function send_tree(s, tree, max_code)
  // deflate_state *s;
  // ct_data *tree; /* the tree to be scanned */
  // int max_code; /* and its largest code of non zero frequency */
{
  var n; /* iterates over all tree elements */
  var prevlen = -1; /* last emitted length */
  var curlen; /* length of current code */

  var nextlen = tree[0 * 2 + 1]/*.Len*/; /* length of next code */

  var count = 0; /* repeat count of the current code */
  var max_count = 7; /* max repeat count */
  var min_count = 4; /* min repeat count */

  /* tree[max_code+1].Len = -1; */ /* guard already set */
  if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
  }

  for (n = 0; n <= max_code; n++) {
    curlen = nextlen;
    nextlen = tree[(n + 1) * 2 + 1]/*.Len*/;

    if (++count < max_count && curlen === nextlen) {
      continue;
    } else if (count < min_count) {
      do { send_code(s, curlen, s.bl_tree); } while (--count !== 0);
    } else if (curlen !== 0) {
      if (curlen !== prevlen) {
        send_code(s, curlen, s.bl_tree);
        count--;
      }
      //Assert(count >= 3 && count <= 6, " 3_6?");
      send_code(s, REP_3_6, s.bl_tree);
      send_bits(s, count - 3, 2);
    } else if (count <= 10) {
      send_code(s, REPZ_3_10, s.bl_tree);
      send_bits(s, count - 3, 3);
    }
  }
}
} else {
    send_code(s, REPZ_11_138, s.bl_tree);
    send_bits(s, count - 11, 7);
}

count = 0;
preamlen = curlen;
if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}

} else if (curlen === nextlen) {
    max_count = 6;
    min_count = 3;

} else {
    max_count = 7;
    min_count = 4;
}
}

/* ===========================================================================
 * Construct the Huffman tree for the bit lengths and return the index in
 * bl_order of the last bit length code to send.
 */
function build_bl_tree(s) {
    var max_blindex;  /* index of last bit length code of non zero freq */

    /* Determine the bit length frequencies for literal and distance trees */
    scan_tree(s, s.dyn_ltree, s.l_desc.max_code);
    scan_tree(s, s.dyn_dtree, s.d_desc.max_code);

    /* Build the bit length tree: */
    build_tree(s, s.bl_desc);

    /* opt_len now includes the length of the tree representations, except
     * the lengths of the bit lengths codes and the 5+5+4 bits for the counts.
     */

    /* Determine the number of bit length codes to send. The pkzip format
     * requires that at least 4 bit length codes be sent. (appnote.txt says
     * 3 but the actual value used is 4.)
     */
    for (max_blindex = BL_CODES - 1; max_blindex >= 3; max_blindex--) {
        if (s.bl_tree[bl_order[max_blindex] * 2 + 1].Len !== 0) {
            break;
        }
    }
/* Update opt_len to include the bit length tree and counts */
s.opt_len += 3 * (max_blindex + 1) + 5 + 5 + 4;
//Tracev((stderr, "ndyn trees: dyn %ld, stat %ld",
// s->opt_len, s->static_len));

return max_blindex;
}

/*-------------------------------------------------------------
* Send the header for a block using dynamic Huffman trees: the counts, the
* lengths of the bit length codes, the literal tree and the distance tree.
* IN assertion: lcodes >= 257, dcodes >= 1, blcodes >= 4.
*/
function send_all_trees(s, lcodes, dcodes, blcodes)
// deflate_state *s;
// int lcodes, dcodes, blcodes; /* number of codes for each tree */
{
    var rank;                    /* index in bl_order */
    //Assert (lcodes >= 257 && dcodes >= 1 && blcodes >= 4, "not enough codes);
    //Assert (lcodes <= L_CODES && dcodes <= D_CODES && blcodes <= BL_CODES,
    // "too many codes");
    //Tracev((stderr, "bl counts: ");
    send_bits(s, lcodes - 257, 5); /* not +255 as stated in appnote.txt */
    send_bits(s, dcodes - 1,   5);
    send_bits(s, blcodes - 4,  4); /* not -3 as stated in appnote.txt */
    for (rank = 0; rank < blcodes; rank++) {
        //Tracev((stderr, "bl code %2d ", bl_order[rank]));
        send_bits(s, s.bl_tree[bl_order[rank] *.Len*], 3);
    }
    //Tracev((stderr, "bl tree: sent %ld", s->bits_sent));
    send_tree(s, s.dyn_ltree, lcodes - 1); /* literal tree */
    //Tracev((stderr, "lit tree: sent %ld", s->bits_sent));
    send_tree(s, s.dyn_dtree, dcodes - 1); /* distance tree */
    //Tracev((stderr, "dist tree: sent %ld", s->bits_sent));
}

/*-------------------------------------------------------------
* Check if the data type is TEXT or BINARY, using the following algorithm:
* - TEXT if the two conditions below are satisfied:
*   a) There are no non-portable control characters belonging to the
*      "black list" (0..6, 14..25, 28..31).
*/
* b) There is at least one printable character belonging to the
  "white list" (9 {TAB}, 10 {LF}, 13 {CR}, 32..255).
* - BINARY otherwise.
* - The following partially-portable control characters form a
  "gray list" that is ignored in this detection algorithm:
*  (7 {BEL}, 8 {BS}, 11 {VT}, 12 {FF}, 26 {SUB}, 27 {ESC}).
* IN assertion: the fields Freq of dyn_ltree are set.
* /
function detect_data_type(s) {
    /* black_mask is the bit mask of black-listed bytes
    * set bits 0..6, 14..25, and 28..31
    * 0xf3ffc07f = binary 111100111111111100000001111111
    */
    var black_mask = 0xf3ffc07f;
    var n;

    /* Check for non-textual ("black-listed") bytes. */
    for (n = 0; n <= 31; n++, black_mask >>>= 1) {
        if ((black_mask & 1) && (s.dyn_ltree[n * 2]/.Freq*/ !== 0)) {
            return Z_BINARY;
        }
    }

    /* Check for textual ("white-listed") bytes. */
    if (s.dyn_ltree[9 * 2]/.Freq*/ !== 0 || s.dyn_ltree[10 * 2]/.Freq*/ !== 0 ||
        s.dyn_ltree[13 * 2]/.Freq*/ !== 0) {
        return Z_TEXT;
    }
    for (n = 32; n < LITERALS; n++) {
        if (s.dyn_ltree[n * 2]/.Freq*/ !== 0) {
            return Z_TEXT;
        }
    }

    /* There are no "black-listed" or "white-listed" bytes:
    * this stream either is empty or has tolerated ("gray-listed") bytes only.
    */
    return Z_BINARY;
}

var static_init_done = false;

/* Initialize the tree data structures for a new zlib stream. */
function _tr_init(s) {
if (!static_init_done) {
    tr_static_init();
    static_init_done = true;
}

s.l_desc = new TreeDesc(s.dyn_ltree, static_l_desc);
s.d_desc = new TreeDesc(s.dyn_dtree, static_d_desc);
s.bl_desc = new TreeDesc(s.bl_tree, static_bl_desc);

s.bi_buf = 0;
s.bi_valid = 0;

/* Initialize the first block of the first file: */
init_block(s);
}

/* ===========================================================================
* Send a stored block
*/
function _tr_stored_block(s, buf, stored_len, last)
    //DeflateState *s;
    //charf *buf;       /* input block */
    //ulg stored_len;   /* length of input block */
    //int last;         /* one if this is the last block for a file */
    {
    send_bits(s, (STORED_BLOCK << 1) + (last ? 1 : 0), 3);    /* send block type */
    copy_block(s, buf, stored_len, true); /* with header */
    }

/* ===========================================================================
* Send one empty static block to give enough lookahead for inflate.
* This takes 10 bits, of which 7 may remain in the bit buffer.
*/
function _tr_align(s) {
    send_bits(s, STATIC_TREES << 1, 3);
    send_code(s, END_BLOCK, static_ltree);
    bi_flush(s);
}

/* ===========================================================================
* Determine the best encoding for the current block: dynamic trees, static
* trees or store, and output the encoded block to the zip file.
*/
function _tr_flush_block(s, buf, stored_len, last)
//DeflateState *s;
//charf *buf; /* input block, or NULL if too old */
//ulg stored_len; /* length of input block */
//int last; /* one if this is the last block for a file */
{
    var opt_lenb, static_lenb; /* opt_len and static_len in bytes */
    var max_blindex = 0; /* index of last bit length code of non zero freq */

/* Build the Huffman trees unless a stored block is forced */
if (s.level > 0) {

    /* Check if the file is binary or text */
    if (s.strm.data_type === Z_UNKNOWN) {
        s.strm.data_type = detect_data_type(s);
    }

    /* Construct the literal and distance trees */
    build_tree(s, s.l_desc);
    // Tracev((stderr, "lit data: dyn %ld, stat %ld", s->opt_len,
    //        s->static_len));
    build_tree(s, s.d_desc);
    // Tracev((stderr, "dist data: dyn %ld, stat %ld", s->opt_len,
    //        s->static_len));

    /* At this point, opt_len and static_len are the total bit lengths of
     * the compressed block data, excluding the tree representations.
     */
    /* Build the bit length tree for the above two trees, and get the index
     * in bl_order of the last bit length code to send.
     */
    max_blindex = build_bl_tree(s);

    /* Determine the best encoding. Compute the block lengths in bytes. */
    opt_lenb = (s.opt_len + 3 + 7) >>> 3;
    static_lenb = (s.static_len + 3 + 7) >>> 3;

    // Tracev((stderr, "opt %lu(%lu) stat %lu(%lu) stored %lu lit %u",
    //     s->opt_len, s->static_len, stored_len,
    //     s->last_lit));

    if (static_lenb <= opt_lenb) { opt_lenb = static_lenb; }
}
else {
    // Assert(buf != (char*)0, "lost buf");
    opt_lenb = static_lenb = stored_len + 5; /* force a stored block */
}
if ((stored_len + 4 <= opt_lenb) & & (buf !== -1)) {
    /* 4: two words for the lengths */

    /* The test buf != NULL is only necessary if LIT_BUFSIZE > WSIZE.
     * Otherwise we can't have processed more than WSIZE input bytes since
     * the last block flush, because compression would have been
     * successful. If LIT_BUFSIZE \leq WSIZE, it is never too late to
     * transform a block into a stored block.
     */
    _tr_stored_block(s, buf, stored_len, last);
}

} else if (s.strategy === Z_FIXED || static_lenb === opt_lenb) {

    send_bits(s, (STATIC_TREES << 1) + (last ? 1 : 0), 3);
    compress_block(s, static_ltree, static_dtree);
}

} else {
    send_bits(s, (DYN_TREES << 1) + (last ? 1 : 0), 3);
    send_all_trees(s, s.l_desc.max_code + 1, s.d_desc.max_code + 1, max_blindex + 1);
    compress_block(s, s.dyn_ltree, s.dyn_dtree);
}

// Assert (s->compressed_len == s->bits_sent, "bad compressed size");
/* The above check is made mod 2^32, for files larger than 512 MB
 * and uLong implemented on 32 bits.
 */

init_block(s);

if (last) {
    bi_windup(s);
}

// Tracev((stderr,"uncomprlen %lu(%lu) ", s->compressed_len>>3,
//        s->compressed_len-7*last));

/* ===========================================================================
* Save the match info and tally the frequency counts. Return true if
* the current block must be flushed.
*/

function _tr_tally(s, dist, lc)
//    deflate_state *s;
//    unsigned dist;  /* distance of matched string */
//    unsigned lc;    /* match length-MIN_MATCH or unmatched char (if dist==0) */
{
    //var out_length, in_length, dcode;

    s.pending_buf[s.d_buf + s.last_lit * 2] = (dist >>> 8) & 0xff;
    s.pending_buf[s.d_buf + s.last_lit * 2 + 1] = dist & 0xff;
s.pending_buf[s.l_buf + s.last_lit] = lc & 0xff;
s.last_lit++;

if (dist === 0) {
    /* lc is the unmatched char */
    s.dyn_ltree[lc * 2].Freq++;
} else {
    s.matches++;
    /* Here, lc is the match length - MIN_MATCH */
    dist--;
    /* dist = match distance - 1 */
    //Assert((ush)dist < (ush)MAX_DIST(s) &&
    // (ush)lc <= (ush)(MAX_MATCH-MIN_MATCH) &&
    // (ush)d_code(dist) < (ush)D_CODES, "_tr_tally: bad match");

    s.dyn_ltree[(_length_code[lc] + LITERALS + 1) * 2].Freq++;
    s.dyn_dtree[d_code(dist) * 2].Freq++;
}

// (!) This block is disabled in zlib defaults,
// don't enable it for binary compatibility

//#ifdef TRUNCATE_BLOCK
// /* Try to guess if it is profitable to stop the current block here */
// if ((s.last_lit & 0x1fff) == 0 && s.level > 2) {
//    /* Compute an upper bound for the compressed length */
//    out_length = s.last_lit*8;
//    in_length = s.strstart - s.block_start;
//    
//    for (dcode = 0; dcode < D_CODES; dcode++) {
//        out_length += s.dyn_dtree[dcode*2].Freq* (5 + extra_dbits[dcode]);
//    }
//    out_length >>>= 3;
//    //Tracev((stderr,"last_lit %u, in %ld, out ~%ld(%ld%%) ",
//    // s->last_lit, in_length, out_length,
//    // 100L - out_length*100L/in_length));
//    if (s.matches < (s.last_lit>>1)/*int /2*/ && out_length < (in_length>>1)/*int /2*/) {
//        return true;
//    }
//    
// }
//#endif

return (s.last_lit === s.lit_bufsize - 1);
/* We avoid equality with lit_bufsize because of wraparound at 64K
 * on 16 bit machines and because stored blocks are restricted to
 * 64K-1 bytes.
 */}
exports._tr_init = _tr_init;
exports._tr_stored_block = _tr_stored_block;
exports._tr_flush_block = _tr_flush_block;
exports._tr_tally = _tr_tally;
exports._tr_align = _tr_align;

'use strict';

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function ZStream() {
    /* next input byte */
    this.input = null; // JS specific, because we have no pointers
    this.next_in = 0;
    /* number of bytes available at input */
    this.avail_in = 0;
    /* total number of input bytes read so far */
    this.total_in = 0;
    /* next output byte should be put there */
    this.output = null; // JS specific, because we have no pointers
    this.next_out = 0;
    /* remaining free space at output */
    this.avail_out = 0;
    /* total number of bytes output so far */
    this.total_out = 0;
    /* last error message, NULL if no error */
    this.msg = '/Z_NULL*/;
    /* not visible by applications */
    this.state = null;
    /* best guess about the data type: binary or text */
this.data_type = 2/*Z_UNKNOWN*/;
/* adler32 value of the uncompressed data */
this.adler = 0;
}

module.exports = ZStream;

},{}].54:[function(require,module,exports){
'use strict';
module.exports = typeof setImmediate === 'function' ? setImmediate :
function setImmediate() {
  var args = [].slice.apply(arguments);
  args.splice(1, 0, 0);
  setTimeout.apply(null, args);
};

},{}],{}

/*
JSZip v3.2.1 - A JavaScript class for generating and reading zip files
<http://stuartk.com/jszip>

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

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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//
package net.sourceforge.jtds.jdbc;

import java.io.InputStream;
import java.io.OutputStream;
import java.sql.Blob;
import java.sql.SQLException;
import net.sourceforge.jtds.util.BlobBuffer;

/**
 * An in-memory or disk based representation of binary data.
 * @author Brian Heineman
 * @author Mike Hutchinson
 * @version $Id: BlobImpl.java,v 1.31.2.3 2009-12-30 08:45:34 ickzon Exp $
 */
public class BlobImpl implements Blob {

/**
 * 0 length <code>byte[]</code> as initial value for empty
 * <code>Blob</code>s.
 */
private static final byte[] EMPTY_BLOB = new byte[0];

/**
 * The underlying <code>BlobBuffer</code>.
 */
private final BlobBuffer blobBuffer;

/**
 * Constructs a new empty <code>Blob</code> instance.
 * @param connection a reference to the parent connection object
 */
BlobImpl(ConnectionJDBC2 connection) {
    this(connection, EMPTY_BLOB);
}

/**
 * Constructs a new <code>Blob</code> instance initialized with data.
 * @param connection a reference to the parent connection object
 * @param bytes the blob object to encapsulate
 */
BlobImpl(ConnectionJDBC2 connection, byte[] bytes) {
    if (bytes == null) {
        throw new IllegalArgumentException("bytes cannot be null");
    }

    blobBuffer = new BlobBuffer(connection.getBufferDir(), connection.getLobBuffer());
    blobBuffer.setBuffer(bytes, false);
}

//
// ----- java.sql.Blob interface methods from here -------
public InputStream getBinaryStream() throws SQLException {
    return blobBuffer.getBinaryStream(false);
}

public byte[] getBytes(long pos, int length) throws SQLException {
    return blobBuffer.getBytes(pos, length);
}

public long length() throws SQLException {
    return blobBuffer.getLength();
}

public long position(byte[] pattern, long start) throws SQLException {
    return blobBuffer.position(pattern, start);
}

public long position(Blob pattern, long start) throws SQLException {
    if (pattern == null) {
        throw new SQLException(Messages.get("error.blob.badpattern"), "HY009");
    }
    return blobBuffer.position(pattern.getBytes(1, (int) pattern.length()), start);
}

public OutputStream setBinaryStream(final long pos) throws SQLException {
    return blobBuffer.setBinaryStream(pos, false);
}

public int setBytes(long pos, byte[] bytes) throws SQLException {
    if (bytes == null) {
        throw new SQLException(Messages.get("error.blob.bytesnull"), "HY009");
    }
    return setBytes(pos, bytes, 0, bytes.length);
}

public int setBytes(long pos, byte[] bytes, int offset, int len) throws SQLException {
    if (bytes == null) {
        throw new SQLException(Messages.get("error.blob.bytesnull"), "HY009");
    }
    // Force BlobBuffer to take a copy of the byte array
    // In many cases this is wasteful but the user may
    // reuse the byte buffer corrupting the original set
    return blobBuffer.setBytes(pos, bytes, offset, len, true);
}

public void truncate(long len) throws SQLException {

blobBuffer.truncate(len);
}

///// JDBC4 demarcation, do NOT put any JDBC3 code below this line /////

public void free() throws SQLException {
    // TODO Auto-generated method stub
    throw new AbstractMethodError();
}

public InputStream getBinaryStream(long pos, long length)
    throws SQLException {
    // TODO Auto-generated method stub
    throw new AbstractMethodError();
}

1.784 jtoaster 1.0.4
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JToaster was created by Daniele Piras and the main site for the project 
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1.785 JUL to SLF4J bridge 1.6.1

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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
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for his work on the initial Linux DVB driver

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

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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

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

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/* 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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1.798 kexec-tools 2.0.14 :17.el7

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<signature of Ty Coon>, 1 April 1989
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1.801 kmod 20 :15.el7

1.801.1 Available under license:

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_interface.c
```

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- mechglue/g_imp_sec_context
- mechglue/g_init_sec_context
- mechglue/g_initialize
- mechglue/g_inquire_context
- mechglue/g_inquire_cred
- mechglue/g_inquire_names
- mechglue/g_process_context
- mechglue/g_rel_buffer
- mechglue/g_rel_cred
- mechglue/g_rel_oid_set
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```
.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
   lib/gssapi/mechglue/g_rel_oid_set.c
   lib/gssapi/mechglue/g_seal.c
   lib/gssapi/mechglue/g_sign.c
   lib/gssapi/mechglue/g_store_cred.c
   lib/gssapi/mechglue/g_unseal.c
   lib/gssapi/mechglue/g_userok.c
   lib/gssapi/mechglue/g_utils.c
   lib/gssapi/mechglue/g_verify.c
   lib/gssapi/mechglue/gssd_pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
```
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kpropd_rpc.c

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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/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
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/*

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/*
/* .*-.- mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*-.- */
/*

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import os
import sys
import re

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

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

# This program is intended to be used by "make check-copyright".  It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/**-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

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

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\*\* \*\*\* ?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                   code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

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

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1.803 Kryo 2.21
1.803.1 Available under license:
New BSD License
http://www.opensource.org/licenses/bsd-license.php

1.804 ksh 20120801 :34.el7
1.804.1 Available under license:

```c
#define bsd_description
"The BSD checksum."
#define bsd_options
0
#define bsd_match"bsd|ucb"
#define bsd_openlong_open
#define bsd_initlong_init
#define bsd_done
```

/*
 * bsd
 */

/pragmataprototyped

*/
#define bsd_print long_print
#define bsd_data long_data
#define bsd_scale 1024

static int bsd_block(register Sum_t* p, const void* s, size_t n)
{
    register uint32_t c = ((Integral_t*)p)->sum;
    register unsigned char*b = (unsigned char*)s;
    register unsigned char*e = b + n;

    while (b < e)
        c = ((c >> 1) + *b++ + ((c & 01) ? 0x8000 : 0)) & 0xffff;
    ((Integral_t*)p)->sum = c;
    return 0;
}

1.805 LatencyUtils 2.0.3

1.806 Launch4J 3.0.2

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1.814 libasyncns 0.8 :7.el7

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

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1.819 libcroco 0.6.11 :1.el7
1.819.1 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.

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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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License Mixing with apps, libcurl and Third Party Libraries

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnutls.org/

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yassl http://www.yassl.com/

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axTLS http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

 krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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Heimdal http://www.pdc.kth.se/heimdal/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.821 libdaemon 0.14 :7.el7
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1.824 libdrm 2.4.74 :1.el7

1.825 libedit 3.0 :12.20121213cvs.el7

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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:

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

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

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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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Version 3.1, 31 March 2009

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Program Directory
------- ---------
mach_override lib/interception/mach_override
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adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE) 
fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */
/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(fputs (".comm \", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
(fputs (".lcomm \", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line that says to advance the location counter by 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE, LOG) 
if ((LOG)!=0) fprintf ((FILE), \t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. */

This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\    
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))
/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
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@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample
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@end smallexample

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

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@end c man end

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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 Petersen (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.)

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DEALINGS IN THE SOFTWARE.
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#
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# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ' : ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
        ])
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
if filename.startswith ('ChangeLog'):
    # Ignore references to copyright in changelog entries.
    return re.compile ('\t')

return None

def skip_file (self, dir, filename):
if filename in self.skip_files:
    return True

(base, extension) = os.path.splitext (os.path.join (dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True

        if os.path.exists (base + '.in'):
return True

return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '\[0-9\][-0-9,.\s]\s+and\s+\*\[0-9\]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.,-\]'

        # Matches one year.
        self.year_re = re.compile('\[0-9\]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '\((C)c\)pyright\'
            '\(\[(Cc)\)pyright\(s+\(\[(Cc)\]\)\)'  
            '\(\[(Cc)\)pyright\(s+\%s\)'  
            '\(\[(Cc)\)pyright\(s+\&copy;\)'  
            '\(\[(Cc)\)pyright\(s+@copyright\{[ ]\)'  
            '@set\(s+\copyright\[w-\]+\)'  

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\(\ls+(?:.\s+)*\) + ranges + \,\?\?
            '@value\{[^{}]*\}\ls+\)'}
# 3: 'by ', if used
'\(by\s+\)'?

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\(+name+(?:\s*name)*\)+)\)?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.\_\_other\_\_copyright\_\_re = re.\_\_compile('copyright.*[0-9][0-9]',
    re.\_\_IGNORECASE)
self.\_\_comment\_\_re = re.\_\_compile('#\+|\[*\]+|;+|%+|//+|@c |dnl ')
self.\_\_holders = { '@\_\_copying': '@\_\_copying' }
self.\_\_holder\_\_prefixes = set()

# True to 'quilt add' files before changing them.
self.\_\_use\_\_quilt = False

# If set, force all notices to include this year.
self.\_\_max\_\_year = None

# Goes after the year(s). Could be ',', .
self.\_\_separator = ' '

def \_\_add\_\_package\_\_author (self, holder, canon\_\_form = None):
    if not canon\_\_form:
        canon\_\_form = holder
    self.\_\_holders[holder] = canon\_\_form
    index = holder.find (' ')
    while index >= 0:
        self.\_\_holder\_\_prefixes.\_\_add (holder[:index])
        index = holder.find (' ', index + 1)

def \_\_add\_\_external\_\_author (self, holder):
    self.\_\_holders[holder] = None

class \_\_BadYear():
    def __\_\_init\_\_ (self, year):
        self.year = year

    def __\_\_str\_\_ (self):
        return \'unrecognised year: \' + self.year

def parse_year (self, string):
    year = int (string)
if len(string) == 2:
    if year > 70:
        return year + 1900
elif len(string) == 4:
    return year
raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
            and not holder.endswith(self.year_suffixes))
            and (holder not in self.holder_prefixes
            or not holder.endswith(self.year_suffixes)))

if len(string) == 2:
    if year > 70:
        return year + 1900
elif len(string) == 4:
    return year
raise self.BadYear(string)
or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
            'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname, 
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)
    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ' ' + canon_form + self.separator
        + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
# Looks like something we tried to create before.
try:
    os.remove (pathname)
except OSErr
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write (' Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', ' quilt add' files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', ' Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + \n')
            else:
                sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#--------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
# Skip files imported from gettext.
if file.readline().find('gettext-') >= 0:
    return True

return GenericFilter.skip_file(self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([#
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([#
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([#
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([#
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([#
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
        ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    .go',
    .inc',
    .java',
)
def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            ['testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            ['intro.xml',
        ])

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            ['html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set (
            # Contains markup around the copyright owner.
            ['spine.xml',
        ])

    def get_line_filter(self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):

def __init__ (self, errors):
    Copyright.__init__ (self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
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self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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Version 3.1, 31 March 2009

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package gnu.classpath.tools.taglets;
import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    }
}
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright &copy; " + tags[i].text() + ";</i><dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
* file foo.
 *
* &lt;p&gt;&lt;code&gt;Permission&lt;/code&gt;'s must be immutable - do not change their
* state after creation.
 *
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable
{

/**
* Compatible with JDK 1.1+.
*/

private static final long serialVersionUID = -5636570222231596674L;

/**
* This is the name assigned to this permission object.
*
* @serial the name of the permission
*/

private String name;

/**
* Create an instance with the specified name.
*
* @param name the permission name
*/

public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the &lt;code&gt;Guard&lt;/code&gt; interface for this class.
* It calls the &lt;code&gt;checkPermission&lt;/code&gt; method in
* &lt;code&gt;SecurityManager&lt;/code&gt; with this &lt;code&gt;Permission&lt;/code&gt; as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
*
* @param obj the &lt;code&gt;Object&lt;/code&gt; being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/

public void checkGuard(Object obj)
{  
  SecurityManager sm = System.getSecurityManager();  
  if (sm != null)  
    sm.checkPermission(this);  
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
  return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');  
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{

}
/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
 boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
 String toString();
}

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

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

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

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 portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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 application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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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
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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
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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
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For an executable, the required form of the "work that uses the
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which the executable runs, unless that component itself accompanies
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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.

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

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

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

   a) The modified work must itself be a software library.

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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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.

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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
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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1.836 libjpeg-turbo 1.2.90 :5.el7

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

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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 Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.
The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is

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.iijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.iijg.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.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

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

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
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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
=====  

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

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

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

Otherwise, if the work is a derivative of the Library, you may
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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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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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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

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

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

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

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

1.842 libnfnetlink 1.0.1 :4.el7
1.842.1 Available under license:
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Version 2, June 1991
Open Source Used In UCCX 12.5

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Preamble

The licenses for most software are designed to take away your
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software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
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have the freedom to distribute copies of free software (and charge 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 or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
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you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
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Also, for each author's protection and ours, we want to make certain
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want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

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

The precise terms and conditions for copying, distribution and modification follow.

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0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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

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

   a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, 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 executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or 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 counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
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otherwise to copy, modify, sublicense or distribute the Program is
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5. You are not required to accept this License, since you have not
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7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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NO WARRANTY

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy  <name of author>

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

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

You should have received a copy of the GNU General Public License 
along with this program; if not, write to the Free Software 
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into 
proprietary programs. If your program is a subroutine library, you may 
consider it more useful to permit linking proprietary applications with the 
library. If this is what you want to do, use the GNU Library General 
Public License instead of this License.
1.843 libnl3 3.2.28 :4.el7

1.843.1 Available under license:

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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 as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your 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.

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

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

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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.

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1.846 libpcap 1.5.3 :9.el7

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1.847 libpciaccess 0.13.4 :3.el7_3

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

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

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<signature of Ty Coon>, 1 April 1990
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</refmeta>
<refnamediv id='name'>
<refname>ipsec _realsetup</refname>
<refpurpose>internal routine to start FreeS/WAN.</refpurpose>
</refnamediv>
<!-- body begins here -->

<refsect1 id='description'><title>DESCRIPTION</title>
<para><emphasis remap='I'>_realsetup</emphasis>
is called by the system init scripts to start the FreeS/WAN
system. It starts
<emphasis remap='B'>KLIPS</emphasis>(the kernel component) and
<emphasis remap='B'>pluto</emphasis>(the userspace keying component).<para>
</refsect1>

<refsect1 id='see_also'><title>SEE ALSO</title>
<para><citerefentry><refentrytitle>ipsec</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
<citerefentry><refentrytitle>ipsec__klipsstart</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
<citerefentry><refentrytitle>ipsec__plutorun</refentrytitle><manvolnum>8</manvolnum></citerefentry>.</para>
</refsect1>

<refsect1 id='history'><title>HISTORY</title>
<para>Man page written for the Linux FreeS/WAN project <<ulink

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7413
# Makefile for miscellaneous programs

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#
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PROGRAM=_realsetup
PROGRAMOBJDIR=_realsetup.bsd

ifdef top_srcdir
include $(top_srcdir)/mk/program.mk
else
include ../..mk/program.mk
endif

.TH "_REALSETUP" "8" "12/16/2012" "libreswan" "Executable programs"

/* Define some portability stuff */

/* set default formatting */
### NAME

ipsec__realsetup - internal routine to start FreeS/WAN.

### DESCRIPTION

`/fI_realsetup` is called by the system init scripts to start the FreeS/WAN system. It starts `/fBKLIPS` (the kernel component) and `/fBpluto` (the userspace keying component).

### SEE ALSO

`/fBipsec`, `/fBipsec__klipsstart`, `/fBipsec__plutorun`.

### HISTORY

Man page written for the Linux FreeS/WAN project (<http://www.freeswan.org>) by Michael Richardson. Original program by Henry Spencer.

### AUTHOR

Paul Wouters

1.853 libseccomp 2.3.1 :3.el7

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

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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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"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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   (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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5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
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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.

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the
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Berlin, 28.11.1994
Jutta Degener
Carsten Bormann

1.859 libsoup 2.56.0 :6.el7
1.859.1 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 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
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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 portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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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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1.860 libssh2 1.4.3 :12.el7

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1.861 libtasn1 4.10 :1.el7

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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.

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

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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.)

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

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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   version 1.1.2, March 19th, 1998

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   jloup@gzip.org          madler@alumni.caltech.edu

   The data format used by the zlib library is described by RFCs (Request for
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1.877 libX11 1.6.5 :1.el7

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1.886 libXi 1.7.9 :1.el7

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author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream
is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- CONFIG_HOTPLUG - Support for hot-pluggable devices
- CONFIG_MODULES - Enable loadable module support
- CONFIG_KMOD - Automatic kernel module loading
- CONFIG_FW_LOADER - Hotplug firmware loading support
- CONFIG_I2C - I2C support
- CONFIG_VIDEO_DEV - Video For Linux
- CONFIG_SOUND - Sound card support
- CONFIG_SND - Advanced Linux Sound Architecture
- CONFIG_USB - Support for Host-side USB
Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- CONFIG_SND_MIXER_OSS - OSS Mixer API
- CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional
Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>
If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

    options wis-sony-tuner force_band=B force_mpx_mode=2

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

    $ modprobe -c | grep wis-sony-tuner

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

    $ apps/gorecord -duration 60 capture.avi

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.
5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of
the hardware or current compression mode. Any or all fields can be set
to zero to request a reasonable default value. If the driver is not
set to MPEG format, the EINVAL error code will be returned. When I/O
is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32                        The maximum number of frames in each
__u32                        Group Of Pictures; i.e. the maximum
gop_size                   number of frames minus one between
                           each key frame.

__u32                        The maximum number of sequential
__u32                        bidirectionally-predicted frames.
max_b_frames               (B-frames are not yet supported.)

enum go7007_aspect_ratio   The aspect ratio to be encoded in the
aspec_t_ratio            meta-data of the compressed format.

Choices are:
  GO7007_ASPECT_RATIO_1_1
  GO7007_ASPECT_RATIO_4_3_NTSC
  GO7007_ASPECT_RATIO_4_3_PAL
  GO7007_ASPECT_RATIO_16_9_NTSC
  GO7007_ASPECT_RATIO_16_9_PAL

__u32                        Bit-wise OR of control flags (below)
flags

Flags in struct go7007_comp_params:

  GO7007_COMP_CLOSED_GOP     Only produce self-contained GOPs, used
t                              to produce streams appropriate for
                              random seeking.

  GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when
the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl
with a pointer to a struct go7007_mpeg_params. If the driver is not
set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct
go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
    mpeg_video_standard The MPEG video standard in which to compress the video.

Choices are:
    GO7007_MPEG_VIDEO_MPEG1
    GO7007_MPEG_VIDEO_MPEG2
    GO7007_MPEG_VIDEO_MPEG4

__u32 flags Bit-wise OR of control flags (below)

__u32 pali The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
    GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
    GO7007_MPEG4_PROFILE_S_L0
    GO7007_MPEG4_PROFILE_S_L1
    GO7007_MPEG4_PROFILE_S_L2
    GO7007_MPEG4_PROFILE_S_L3
    GO7007_MPEG4_PROFILE_ARTS_L1
    GO7007_MPEG4_PROFILE_ARTS_L2
    GO7007_MPEG4_PROFILE_ARTS_L3
    GO7007_MPEG4_PROFILE_ARTS_L4
    GO7007_MPEG4_PROFILE_AS_L0
    GO7007_MPEG4_PROFILE_AS_L1
    GO7007_MPEG4_PROFILE_AS_L2
    GO7007_MPEG4_PROFILE_AS_L3
    GO7007_MPEG4_PROFILE_AS_L4
    GO7007_MPEG4_PROFILE_AS_L5
Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE  Force all compression parameters and
    bitrate control settings to comply
    with DVD MPEG2 stream requirements.
    This overrides most compression and
    bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER  Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER  Repeat the MPEG sequence header at
    the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the
compressed video stream. The bitrate may be selected by storing the
target bits per second in an int and calling GO7007IOC_S_BITRATE with a
pointer to the int. The bitrate may be queried by calling
GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate
will be stored.

Note that this is the primary means of controlling the video quality
for all compression modes, including V4L2_PIX_FMT_MJPEG. The
VIDIOC_S_JPEGCOMP ioctl is not supported.

---------------------------------------------------------------------------
Installing the WIS PCI Voyager Driver
---------------------------------------------------------------------------

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x
kernel source tree before compiling the driver. These patches update the
in-kernel SAA7134 driver to the newest development version and patch bugs
in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and
applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any
order:
patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

--------------------------------------------------------------------------------------------------------------------------

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER
--------------------------------------------------------------------------------------------------------------------------

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to
inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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*
*$Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/
File: LLM_sp_sha2.c

/*
 * FILE:    sha2.h
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 *
 * $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
 */
File: LLM_sp_sha2.h

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

2.

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 * this includes inlined list.h safe for userspace.
 *
 * Copyright 2009 Jerome Glisse
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 *
 * Authors:
 * Jerome Glisse
 * Dave Airlie
 */

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/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */
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===============================================================================
4.

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */
/**
 * rijndael-alg-fst.c
 *
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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File: aes_core.c
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $ $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $
when who what, where, why
-------- --- ----------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael) designed by Joan Daemen and Vincent Rijmen. This version is designed to provide both fixed and dynamic block and key lengths and can also run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

byte (an unsigned 8-bit type)
word (an unsigned 32-bit type)
aes_ret: (an signed 16 bit type for function return values)
aes_good (value != 0, a good return)
aes_bad (value == 0, an error return)
enum aes_key: (encryption direction)
enc (set key for encryption)
dec (set key for decryption)
both (set key for both)
class or struct aes (structure for context)
C subroutine calls:

aes_ret set_blk(const word block_length, aes *cx)  (variable block size)
aes_ret set_key(const byte key[], const word key_length,
              const enum aes_key direction, aes *cx)
aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)
aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does not set the memory used for objects to zero before use, you will need to ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

aes_ret set_blk(const word block_length)  (variable block size)
aes_ret set_key(const byte key[], const word key_length,
              const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const

The block length inputs to set_block and set_key are in numbers of BYTES, not bits. The calls to subroutines must be made in the above order but multiple calls can be made without repeating earlier calls if their parameters have not changed. If the cipher block length is variable but set_blk has not been called before cipher operations a value of 16 is assumed (that is, the AES block size). In contrast to earlier versions the block and key length parameters are now checked for correctness and the encryption and decryption routines check to ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the n’th byte contains bits 8n to 8n+7 of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs. The byte order used internally is set by defining INTERNAL_BYTE_ORDER whereas the order for all inputs and outputs is specified by defining
EXTERNAL_BYTE_ORDER, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN

C. COMPILATION

To compile AES (Rijndael) for use in C code
a. Exclude the AES_DLL define in aes.h
b. Exclude the AES_IN_CPP define in aes.h

To compile AES (Rijndael) for use in C++ code
a. Exclude the AES_DLL define in aes.h
b. Include the AES_IN_CPP define in aes.h

To compile AES (Rijndael) in C as a Dynamic Link Library
a. Include the AES_DLL define in aes.h
b. Compile the DLL. If using the test files, exclude aes.c from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK_SIZE to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set AES_IN_CPP to use the code from C++ rather than C
3. set AES_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL_BYTE_ORDER to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set EXTERNAL_BYTE_ORDER to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: BLOCK_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a slower version providing variable block length is compiled

#define BLOCK_SIZE 16

Define AES_IN_CPP if you intend to use the AES C++ class rather than the C code directly.
#define AES_IN_CPP

Define AES_DLL if you wish to compile the code to produce a Windows DLL

#define AES_DLL

*/

File: aes.h

/*===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $ $Author: davidf $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why
-------- --- ----------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

===========================================================================*/
/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

*/

File: aes_tab.h

===============================================================================
6.
===============================================================================
#FILE:Conftest.py
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# The purpose of this module is to define how a check is to be performed. # Use one of the Check...() functions below.

# A context class is used that defines functions for carrying out the tests, # logging and messages. The following methods and members must be present:

# context.Display(msg)  Function called to print messages that are normally # displayed for the user. Newlines are explicitly used. # The text should also be written to the logfile!

# context.Log(msg)      Function called to write to a log file.

# context.BuildProg(text, ext) # Function called to build a program, using "ext" for the # file extension. Must return an empty string for # success, an error message for failure. # For reliable test results building should be done just # like an actual program would be build, using the same # command and arguments (including configure results so far).

# context.CompileProg(text, ext) # Function called to compile a program, using "ext" for # the file extension. Must return an empty string for # success, an error message for failure. # For reliable test results compiling should be done just # like an actual source file would be compiled, using the
same command and arguments (including configure results so far).

# context.AppendLIBS(lib_name_list)
# Append "lib_name_list" to the value of LIBS.
# "lib_namelist" is a list of strings.
# Return the value of LIBS before changing it (any type can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
# Prepend "lib_name_list" to the value of LIBS.
# "lib_namelist" is a list of strings.
# Return the value of LIBS before changing it (any type can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
# Set LIBS to "value". The type of "value" is what AppendLIBS() returned.
# Return the value of LIBS before changing it (any type can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
# Name of file to append configure results to, usually "confdefs.h".
# The file must not exist or be empty when starting.
# Empty or None to skip this (some tests will not work!).
#
# context.config_h      (may be missing). If present, must be a string, which
# will be filled with the contents of a config_h file.
#
# context.vardict       Dictionary holding variables used for the tests and stores results from the tests, used for the build commands.
# Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict      Dictionary holding results from the tests that are to be used inside a program.
# Names often start with "HAVE_". These are zero (feature not present) or one (feature present). Other variables may have any value, e.g., "PERLVERSION" can

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

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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jloup@gzip.org     madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

//
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//
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

 случая исходных данных.

/*
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------------------------------------------------------------------------------
------------------------------------------------------------------------------
/*-
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*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly
*
* The feedback terms table consists of 256, 32-bit entries. Notes
*
* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values
*
* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions
* polynomial $edb88320
* */
The AES algorithm Rijndael implemented for block and key sizes of 128, 192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

* hash_32 - 32 bit Fowler/Noll/Vo hash code
  *
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  *
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  *
/*
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  *
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  *
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*/

/*------------------------------------------------------------------------------

/*
 * AES-based functions
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
 *
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 * SHA1 hash implementation and interface functions
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"
/*
 * hmac_sha1.c
 *
 * Version 1.0.0
 *
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```
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```

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```
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```

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

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1.902 lm_sensors 3.4.0
:4.20160601gitf9185e5.el7
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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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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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Log4j is the result of contributions from several dozen developers and hundreds of users across the globe. Some of the more prominent contributors are listed below in alphabetical order.

- Mathias Bogaert
While not lurking on the serverside, Mathias mends the log4j documentation.

James P. Cakalic

Jim is the original author of the PatternLayout and the NTEventLogAppender.

Paul Glezen

Paul maintains the log4j extension manual while he is not consulting for IBM.

Ceki Glc

Ceki is the founder the log4j project which continues to occupy much of his time. He enjoys writing software although he is discovering that it is far more difficult than what it may seem initially. He is also managing his IT services company. He is also a committer on the (non-Apache related) XMLC, BarracudaMVC, and Prevayler projects. Of late his free time has been squeezed with a new job and his vigorous 2 year old son, Nicholas, but he still tries to pitch in when he can. :-)

Jacob Kjome

Jacob Kjome has been developing software since 1997 and has been playing with Java for about 4 years. Jake joined the log4j team after being very active on the user list and contributing servlet and repository selector related code to the logj-sandbox. He is also a committer on the (non-Apache related) XMLC, BarracudaMVC, and Prevayler projects. Of late his free time has been squeezed with a new job and his vigorous 2 year old son, Nicholas, but he still tries to pitch in when he can. :-)

Anders Kristensen
Contributor of many enhancements, Anders takes a keen interest in log4j and all things Java, OO, and XML. He is currently specification lead for JSR 116, the SIP Servlet expert group.

Jim is often seen answering tough question from log4j users.

Yoav Shapira works for Millennium Pharmaceuticals and is as interested in the business aspects of Open-Source Software as he is in the technical aspects. Yoav contributes to the Tomcat container, the Log4j logging system, and a number of jakarta-commons and other open-source projects.

Jon is a software developer in his mid-twenties living in the UK. He is a Java enthusiast and very active participant in the comp.lang.java.* newsgroups as well as a moderator for the log4j mailing lists. He is a committer for the Ant project, involved (when time permits!) in tidying up the code documentation.

Paul Smith has been developing software since 1990, and playing computer games a few years longer than that. He has been thoroughly enjoying Java since 1998 after he gave up on Visual Basic in disgust. Paul joined the log4j team after finding how darn useful it and the companion Chainsaw application was in '03, and has been helping out
where he can, working on Chainsaw v2, and generally making a good
nuisance of himself.

</li>
</ul>

<li><b>Chris Taylor</b></li>

<p>Chris is the author NTEventLogAppender. In around 1832, he ported our previous GNU-make build system to at the time unknown but promising &lt;a href="jakarta.apache.org/ant/"&gt;jakarta-ant&lt;/a&gt;.

</p></li>

<li><b>Mark Womack</b></li>

<p>Mark Womack has been developing software for over 13 years. He has been developing in Java for the past 5 years, focusing on web application development. He has been an active committer for the log4j project since April 2002, contributing features for the upcoming v1.3 release. He is also a member of the Logging Services PMC.</p></li>

</ul>

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@end smallexample

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

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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End of terms and conditions

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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.

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 of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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@c End:
1.943 mariadb 5.5.56 :2.el7

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Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initally made by http://ourdelta.org/, and
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Warnings:
Warning1681'SHOW CONTRIBUTORS' is deprecated and will be removed in a future release.
SHOW CONTRIBUTORS;
'#------------------------------------------------------------------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#------------------------------------------------------------------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#------------------------------------------------------------------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'#-------------------------------------------------------------------------------BS_VARS_040_04#-------------------------------------------------------------------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'#-------------------------------------------------------------------------------BS_STVARS_040_05#-------------------------------------------------------------------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

#-------------------------------- mysql-test\license_basic.test #-------------------------------
# Author: Sharique Abdullah
# #
# Description: Test Cases of Dynamic System Variable license that checks the behavior of this variable in the following ways#
# * Value Check
# * Scope Check
#
#
--echo '#---------------------BS_STVARS_040_01----------------------#'
# Displaying default value
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
# Check if Value can set
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
SELECT COUNT(VARIABLE_VALUE) FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES WHERE VARIABLE_NAME='license';

--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'

# Check if accessing variable with and without GLOBAL point to same variable #
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'

# Check if license can be accessed with and without @@ sign #
SELECT COUNT(@@license);

--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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

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

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- xz, xzdec, and lzmadec command line tools are in the public domain unless GNU getopt_long had to be compiled and linked in from the lib directory. The getopt_long code is under GNU LGPLv2.1+.

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- Translated messages are in the public domain.

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Version 2.1, February 1999

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1.946 maven-scm-api 1.4
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<html lang="en">
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<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
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This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

```pre
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```

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When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.

<h1>Mesa Component Licenses</h1>

```pre
<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
</tbody>
</table>
```
/* Legal characters in GLSL are:
 *
 * Identifier characters:
 *
 *     Letters a-z
 *     Letters A-Z
 *     Underscore
 *     Numbers 0-9
 *
 * Punctuation:
 *
 *     Period, plus, dash, slash, asterisk, percent, angled brackets,
 *     square brackets, parentheses, braces, caret, vertical bar,
 *     ampersand, tilde, equals, exclamation point, colon, semicolon,
 *     comma, and question mark
 *
 * Special:
 *
 *     Number sign (as used in preprocessor)
 *
 *     Backslash just before newline as line continuation
 *
 * White space:
 *
 *     Space, horizontal tab, vertical tab, form feed, carriage-return,
 *     and line-feed.
 *
 * [GLSL Language Specification 4.30.6, section 3.1]
 *
 * In this file, we test each of these in turn as follows:
 *
 *     Identifier characters: All pass through unchanged
 *     Punctuation: All pass through unchanged
 *     Special: Empty directive replaced with blank line
 *     Line continuation merges two lines, then a blank line
 *     Whitespace: 4 horizontal space characters each replaced with space
 *                2 newline characters each replaced with a newline
 */

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_0123456789
+-/

abcdefhijklmnopqrstuvwxyz
ABCDEFHIJKLMNOPQRSTUVWXYZ


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Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>  
Sent: January 8, 2013 6:49 PM  
To: Jorge Jimenez <iryoku@gmail.com>  
CC: jorge@iryoku.com  
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

---

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!
Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
   *
   * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
   *
   * Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
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1.963 mkfontdir 1.0.7 :9.1.2

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1.966 moment-duration-format 2.2.2

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1.967 moment-jdateformatparser 0.1.1

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1.970 moment-with-locales 2.8.3

1.971 mongoose web server 3.5

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Some alternate data structures provided by JSR-166e
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1.976 mt-st 1.1 :14.el7
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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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 Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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user can modify the Library and then relink to produce a modified 
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that the user who changes the contents of definitions files in the 
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at 
least three years, to give the same user the materials 
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c) If distribution of the work is made by offering access to copy 
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d) Verify that the user has already received a copy of these 
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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 
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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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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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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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Written by: Philip Hazel
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import * as try_syntax from "/try_syntax";
import extend from "/extend";

const main = async () => {
  // Init try syntax filter.
if (process.env.TC_PROJECT == "nss-try") {
  await try_syntax.initFilter();
}

// Extend the task graph.
await extend();
;

main().catch(err => {
  console.error(err);
  process.exit(1);
});
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jpg "Clone me," says Dolly sheepishly.

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47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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Massive prototyping overhaul

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A/UX port

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Massive prototyping overhaul

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Oncore driver (Original author)

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STREMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

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RS/6000 AIX modifications, HPUX modifications

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4.4BSD port, ppsclock, Magnavox GPS clock driver

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SunOS 5.1 port

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MD5-based authentication

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1.1024 ntpdate 4.2.6p5 :28.el7.centos

1.1024.1 Available under license :

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*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
}

#endif

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_
#define COMPAT_POLL_H

typedef struct pollfd {
  int fd;
  short events;
  short revents;
}

#endif

/* OPENBSD ORIGINAL: sys/sys/poll.h */
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNDLM 0x0040
#define POLLNORM POLLRDNDLM
#define POLLRWNORM POLLOUT
#define POLLWRBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 */
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
define WIFEXITED(w) (!_W_INT(w) & 0377)
define WIFSTOPPED(w) (_W_INT(w) & 0100)
define WIFSIGNALED(w) (WIFEXITED(w) && !WIFSTOPPED(w))
define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
define WCOREFLAG 0x80
define WCOREDUMP(w) (_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
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- IDEA is no longer included, its use is deprecated
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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
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 */

#ifndef HAVE_SETREGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETREGUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
    /* the following are currently not implemented */
    #define POLLPRI 0x0002
    #define POLLRDNORM 0x0040
    #define POLLNORM POLLRDNORM
    #define POLLWRNORM POLLOUT
    #define POLLRDBAND 0x0080
    #define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 *
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)*((int*)&(w))/* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests

Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
.Ek
.Nm
.Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
/* Version of client */
static u_int version;
+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;
@@ -679,6 +693,10 @@ process_open(u_int32_t id)
    if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
        (r = sshbuf_get_u32(iqueue, &pflags)) != 0 || /* portable flags */
    @@ -688,6 +693,10 @@ process_open(u_int32_t id)
    debug3("request %u: open flags %s mode 0%o",
        name, string_from_portable(pflags), mode);}
if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
 }
 }
+	if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
 fprintf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
    "[-l log_level] \n[\-lP blacklisted_requests] "
-    "[-p whitelisted_requests] [-u umask] \n" 
+    "[-p whitelisted_requests] [-u umask] [-m force_file_perms] \n" 
    " %s -Q protocol_feature \n",
    __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
+    "d:f:l:P:p:Q:u:m:cehR") != -1) { 
      switch (ch) {
        case 'Q':
          if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
            fatal("Invalid umask \"%s\"", optarg);
            (void)umask((mode_t)mask);
            break;
+  case 'm':
+    /* Force permissions on file received via sftp */
+    permforce = 1;
+    permforcemode = strtol(optarg, &cp, 8);
+    if (permforcemode < 0 || permforcemode > 0777 ||
+        *cp != '\0' || (permforcemode == 0 &&
+            errno != 0))
+      fatal("Invalid file mode \"%s\"", optarg);
+     break;
+  case 'h':
    default:
sftp_server_usage();
1.1041 OpenSSL 1.0.2p

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1.1046 OpenSSL patch to 0.9.8 branch to add
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package org.opensaml.ws;

/** Class for printing the version of this library. */
public class Version {

/**
* Main entry point to program.
*
* @param args command line arguments
*/
public static void main(String[] args) {
    Package pkg = Version.class.getPackage();
    System.out.println(pkg.getImplementationTitle() + " version " + pkg.getImplementationVersion());
}
}

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1.1052 org.eclipse.persistence.core 2.6.0

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package org.eclipse.persistence.descriptors.copying;

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

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

    public InstantiationCopyPolicy() {
        super();
    }

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

    public boolean buildsNewInstance() {
        return true;
    }

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

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package org.eclipse.persistence.descriptors.copying;

import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.internal.sessions.AbstractRecord;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;
import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

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

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

    public CloneCopyPolicy() {
        super();
    }

    /**
     * Clone through calling the clone method.
     */
    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() == null) {
            return getDescriptor().getObjectBuilder().buildNewInstance();
        }
        try {
            if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
                try {
                    return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject,
new Object[0]);

} catch (PrivilegedActionException exception) {
    Exception throwableException = exception.getException();
    if (throwableException instanceof IllegalAccessException) {
        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
            this.getDescriptor(), throwableException);
    } else {
        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
            this.getDescriptor(), throwableException);
    }
}

} else {
    return PrivilegedAccessHelper.invokeMethod(this.getMethod(), domainObject, new Object[0]);
} catch (IllegalAccessException exception) {
    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
        this.getDescriptor(), exception);
} catch (InvocationTargetException exception) {
    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
        this.getDescriptor(), exception);
}
}

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

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

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

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

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

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

/**
* Return the workingCopyClone method.
* This is used to clone within a unit of work.
*/

protected Method getWorkingCopyMethod() {
    return workingCopyMethod;
}

/**
* Return the workingCopyClone method name.
* This is used to clone within a unit of work.
*/

public String getWorkingCopyMethodName() {
    return workingCopyMethodName;
}

/**
* Validate and build the methods.
*/

public void initialize(Session session) throws DescriptorException {
    final Class javaClass = this.getDescriptor().getJavaClass();
    try {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() != null) {
            this.setMethod(Helper.getDeclaredMethod(javaClass, this.getMethodName(), new Class[0]));
        }
    } catch (NoSuchMethodException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    } catch (SecurityException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    }
    if (this.getWorkingCopyMethodName() != null) {
        try {
            this.setWorkingCopyMethod(Helper.getDeclaredMethod(javaClass, this.getWorkingCopyMethodName(), new Class[0]));
        } catch (NoSuchMethodException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        } catch (SecurityException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        }
    }
}

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

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

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

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

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

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

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package org.eclipse.persistence.descriptors.copying;

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

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

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

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

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

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

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

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

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

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

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

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

public boolean buildsNewInstance() {
    return false;
}

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

package org.eclipse.persistence.descriptors.copying;

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

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

    public AbstractCopyPolicy() {
        super();
    }

    public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;
/**
 * By default use the buildClone.
 */

public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
    return buildClone(domainObject, session);
}

/**
 * By default create a new instance.
 */

public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey, UnitOfWork uow) throws DescriptorException {
    return this.descriptor.getObjectBuilder().buildNewInstance();
}

/**
 * INTERNAL:
 * Clones the CopyPolicy
 */

public Object clone() {
    try {
        // clones itself
        return super.clone();
    }
    catch (Exception exception) {
    }
    return null;
}

/**
 * Return the descriptor.
 */

protected ClassDescriptor getDescriptor() {
    return descriptor;
}

/**
 * Do nothing by default.
 */

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

/**
 * Set the descriptor.
 */

public void setDescriptor(ClassDescriptor descriptor) {
    this.descriptor = descriptor;
}
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1.1053 org.eclipse.persistence.moxy 2.6.0

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1.1054 org.osgi.core 4.1.0

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Daniel Savarese <dfs at savarese.org> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
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Michael Davey <michael.davey at coderage.org> fixed some documentation and
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Harald Kuhn <harald at ontopia.net> updated
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1.1059 osgi.resource.locator 1.0.1

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1.1060 p11-kit 0.23.5 :3.el7

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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.

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.

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

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

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

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

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

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

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

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

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

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.

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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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 */

package org.pentaho.reporting.ui.datasources.xpath;

/**
 * A common data-object for representing named queries.
 */
public class DataSetQuery implements Cloneable
{
    private String queryName;


private String query;

public DataSetQuery(final String queryName, final String query)
{
    //noinspection ConstantConditions
    if (queryName == null)
    {
        throw new IllegalArgumentException("queryName must not be null");
    }
    //noinspection ConstantConditions
    if (query == null)
    {
        throw new IllegalArgumentException("query must not be null");
    }
    this.queryName = queryName;
    this.query = query;
}

public String getQueryName()
{
    return queryName;
}

public void setQueryName(final String queryName)
{
    //noinspection ConstantConditions
    if (queryName == null)
    {
        throw new IllegalArgumentException("queryName must not be null");
    }
    this.queryName = queryName;
}

public String getQuery()
{
    return query;
}

public void setQuery(final String query)
{
    this.query = query;
}

public String toString()
{
    return queryName.length() > 0 ? queryName : " ";
}
public boolean equals(final Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    final DataSetQuery that = (DataSetQuery) o;

    if (queryName != null ? !queryName.equals(that.queryName) : that.queryName != null) {
        return false;
    }

    return true;
}

public int hashCode() {
    return (queryName != null ? queryName.hashCode() : 0);
}

protected Object clone() throws CloneNotSupportedException {
    return super.clone();
}

1.1071 perl 5.16.3 :292.el7

1.1071.1 Available under license:

From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections
were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---

hv.c          |  6 ++++++  
sv.c          |  7 +++++--  
t/op/svleak.t | 22 +++++++++++++++++++++-
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c  
index 3c35341..29d6352 100644  
--- a/hv.c  
+++ b/hv.c  
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
 
+ENTER;
+SAVEFREESV(hv);
 +
 while (hv_max && hv_max + 1 >= hv_fill * 2)  
   hv_max = hv_max / 2;
 HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
 HvRITER_set(ohv, riter);
 HvEITER_set(ohv, eiter);
+  
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
  }
 hv_magic(hv, NULL, PERL_MAGIC_hints);
 return hv;

diff --git a/sv.c b/sv.c  
index a43feac..597d71b 100644  
--- a/sv.c  
+++ b/sv.c  
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
 Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
 return NULL;
  }
+ /* Do this here, otherwise we leak the new SV if this croaks. */
SvGETMAGIC(old);
    new_SV(sv);
-    /* SV_GMAGIC is the default for sv_setsv()
-       SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+    /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
   with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
     or skip_all("XS::APItest not available");
 }

-plans tests => 23;
+plans tests => 24;

 # run some code N times. If the number of SVs at the end of loop N is
 # greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
     each %$h;
     undef $h;
 }, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE { $_[0][0]{$_[1]} = $_[2] }
+    sub FETCH { die if $explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+    sub NEXTKEY { each %{$_[0][0]} }
+}
+leak(2,!!$Config{mad}, sub {
+    eval q`
+      BEGIN { 1; }
+      $hhtie::explosive = 0;
+      tie %$H, hhtie;
+      $H{foo} = bar;
+      $hhtie::explosive = 1;
+    }`
+}, 'hint-hash copying does not leak');
1.8.1.4

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Version 1, February 1989

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

use strict;
use lib './lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#--------------------------------------------------------------
# Create test distribution
{my $dist = DistGen->new(  
    name => 'Simple::Name',  
    version => '0.01',  
    license => 'perl'  
);  
$dist->regen;  
$dist->chdir_in;  
my $mb = $dist->new_from_context();  
is( $mb->license, 'perl',  
   "license 'perl' is valid"  
);  
my $meta = $mb->get_metadata( fatal => 0 );  
}

{my $dist = DistGen->new(  
    name => 'Simple::Name',  
    version => '0.01',  
    license => 'VaporWare'  
);  
$dist->regen;  
$dist->chdir_in;  
my $mb = $dist->new_from_context();  
is( $mb->license, 'VaporWare',  
   "license 'VaporWare' is valid"  
);  
my $meta = $mb->get_metadata( fatal => 0 );  
}

is( $meta->{license} => 'perl',  
   "META license will be 'perl'"  
);  
is( $meta->{resources}{license},  
   "http://dev.perl.org/licenses/",  
   "META license URL is correct"  
);  
}

is( $meta->{license} => 'unrestricted',  
   "META license will be 'unrestricted'"  
);  
is( $meta->{resources}{license},  
   "http://example.com/vaporware/",  
   "META license URL is correct"  
);
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---

abstract: 'Build and install Perl modules'

author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.'"

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

1.1072 perl-Carp 1.26 :244.el7
1.1072.1 Available under license:
  From RPM File Metadata:GPL+ or Artistic

1.1073 perl-constant 1.27 :2.el7
1.1073.1 Available under license:
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1.1074 perl-Data-Dumper 2.145 :3.el7
1.1074.1 Available under license:
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1.1075 perl-Encode 2.51 :7.el7
1.1075.1 Available under license:
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1.1076 perl-Exporter 5.68 :3.el7
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1.1077 perl-File-Path 2.09 :2.el7
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1.1078 perl-File-Temp 0.23.01 :3.el7
1.1078.1 Available under license:
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<signature of Ty Coon>, 1 April 1989
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SLF4J library (slf4j-api-*.jar)

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1.1107 poi-ooxml 3.17

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JUnit test library (junit-4.*.jar) & JaCoCo (*jacoco*)

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SLF4J library (slf4j-api-*.jar)

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inbot-utils (https://github.com/Inbot/inbot-utils)

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-->}

<antlib>

<typedef name="excelant" classname="org.apache.poi.ss.excelant.ExcelAntTask" />
<typedef name="test" classname="org.apache.poi.ss.excelant.ExcelAntTest"/>
<typedef name="setDouble" classname="org.apache.poi.ss.excelant.ExcelAntSetDoubleCell"/>
<typedef name="setString" classname="org.apache.poi.ss.excelant.ExcelAntSetStringCell"/>
<typedef name="setFormula" classname="org.apache.poi.ss.excelant.ExcelAntSetFormulaCell"/>
<typedef name="evaluate" classname="org.apache.poi.ss.excelant.ExcelAntEvaluateCell"/>
<typedef name="udf" classname="org.apache.poi.ss.excelant.ExcelAntUserDefinedFunction"/>
<typedef name="handler" classname="org.apache.poi.ss.excelant.ExcelAntHandlerTask"/>

</antlib>
1.1109 policycoreutils 2.5 :29.el7

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1.1124 Pthreads 2.8.0

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
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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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1.1125 pthreads-w32 2.9.1

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

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c) You must cause the whole of the work to be licensed at no
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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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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.

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the
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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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pthreads-win32 - a POSIX threads library for Microsoft Windows

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-------------------------------------------------------------

The goal of the pthreads-win32 project has been to provide a quality and complete implementation of the POSIX threads API for Microsoft Windows within the limits imposed by virtue of it being a stand-alone library and not linked directly to other POSIX compliant libraries. For example, some functions and features, such as those based on POSIX signals, are missing.

Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used as a dynamically linked module or a statically linked set of binary modules. It is not an application on it's own.
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Releasing pthreads-win32 under the LGPL ensures that the library can be used widely, while at the same time ensures that bug fixes and improvements to the pthreads-win32 code itself is returned to benefit all current and future users of the library.

Although pthreads-win32 makes it possible for applications that use POSIX threads to be ported to Win32 platforms, the broader goal of the project is to encourage the use of open standards, and in particular, to make it just a little easier for developers writing Win32 applications to consider widening the potential market for their products.

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

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

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

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

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

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

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

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

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1.1130 pygpgme 0.3 :9.el7
1.1130.1 Available under license :
From RPM File Metadata:LGPLv2+

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1.1132.1 Available under license:

.. highlight:: none

.. _history-and-license:

*******************
History and License
*******************

History of the software
==========================

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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Mersenne Twister

------------

The :mod:`_random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
Project, http://www.wide.ad.jp/: ::

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```
MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
Asynchronous socket services

----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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-------------------------------

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--------------

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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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1.1140 python-iniparse 0.4 :9.el7

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A. HISTORY OF THE SOFTWARE

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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1.1141 python-ipaddress 1.0.16 :2.el7

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**1.1142 python-IPy 0.75 :6.el7**

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1.1143 python-libs 2.7.5 :86.el7

1.1144 python-lxml 3.2.1 :4.el7

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

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

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1.1146 python-lxml_PSFv2.x 3.2.1 :4.el7

1.1146.1 Available under license:

This is the official license for the Python 2.2.1 release:

A. HISTORY OF THE SOFTWARE

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

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

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

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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1.1147 python-paramiko 2.1.1 :2.el7
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Version 2.1, February 1999

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1.1148 python-ply 3.4 :1.el7

1.1149 python-pyasn1 0.1.9 :7.el7
1.1149.1 Available under license :

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1.1151 python-pycurl 7.19.0 :19.el7

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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<one line to give the program's name and a brief idea of what it does.>
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```
Gnomovision version 69, Copyright (C) 19yy name of author
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

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

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

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

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### 1.1155 python-suds 0.4.1 :5.el7

#### 1.1155.1 Available under license:

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Version 3, 29 June 2007

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1.1156 python-urlgrabber 3.10 :8.el7
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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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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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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.

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

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

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

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

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1.1159 qt-faststart 0.2
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/*
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 * by Mike Melanson (melanson@pcisys.net)
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 * see fit.
 *
 * This utility rearranges a Quicktime file such that the moov atom
 * is in front of the data, thus facilitating network streaming.
 *
 * To compile this program, start from the base directory from which you
 * are building FFmpeg and type:
 * make tools/qt-faststart
 * The qt-faststart program will be built in the tools/ directory. If you
 * do not build the program in this manner, correct results are not
 * guaranteed, particularly on 64-bit platforms.
 * Invoke the program with:
 * qt-faststart <infile.mov> <outfile.mov>
 *
 * Notes: Quicktime files can come in many configurations of top-level
 * atoms. This utility stipulates that the very last atom in the file needs
 * to be a moov atom. When given such a file, this utility will rearrange
* the top-level atoms by shifting the moov atom from the back of the file
* to the front, and patch the chunk offsets along the way. This utility
* presently only operates on uncompressed moov atoms.
*/

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
/*

ISO C9x compliant inttypes.h for Microsoft Visual Studio
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1.1173 redux-devtools-extension 2.13.2

1.1174 redux-logger 3.0.6

1.1175 reflections 0.9.11

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1.1178 requirejs 2.1.14

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1.1185 rsync 3.0.9 :18.el7

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1.1189 Saxon DOM 8.7

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1.1198 sed 4.2.2 :5.el7
1.1198.1 Available under license :

==============
Test 1.1:101
==============

Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
Test 1.2: 102

Test 1.3: 103
Test 1.4:104

Second type

Test 1.4.1:105
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

==============
Test 1.5:106
==============

s1_11_1
s1_11_1
s1_11_2
s1_11_2
s1_11_3
s1_11_3
s1_11_4
s1_11_4
s1_11_5
s1_11_5
s1_11_6
s1_11_6
s1_11_7
s1_11_7
s1_11_8
s1_11_8
s1_11_9
s1_11_9
s1_11_10
s1_11_10
s1_11_11
s1_11_11
s1_11_12
s1_11_12
s1_11_13
s1_11_13
s1_11_14
s1_11_14

==============
Test 1.6:107
==============

s1_11_1
s1_11_1
Test 1.7:108
Test 1.8:109

Test 1.9:110

s1_ll_1
s1_ll_2
Test 1.10:111

Test 1.11:112
Test 1.12:113

Test 1.13:114
\[ e_{2\cdot e_{1\cdot l_{1\cdot 9}}} \\
e_{1\cdot l_{1\cdot 10}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 10}}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 10}}} \\
e_{1\cdot l_{1\cdot 11}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 11}}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 11}}} \\
e_{1\cdot l_{1\cdot 12}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 12}}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 12}}} \\
e_{1\cdot l_{1\cdot 13}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 13}}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 13}}} \\
e_{1\cdot l_{1\cdot 14}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 14}}} \\
e_{2\cdot e_{1\cdot l_{1\cdot 14}}} \\
\]

\[ \text{Test 1.14:115} \]

\[ \text{==============} \]

\[ s_{1\cdot l_{1\cdot 1}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 1}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 1}}} \\
s_{1\cdot l_{1\cdot 2}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 2}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 2}}} \\
s_{1\cdot l_{1\cdot 3}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 3}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 3}}} \\
s_{1\cdot l_{1\cdot 4}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 4}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 4}}} \\
s_{1\cdot l_{1\cdot 5}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 5}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 5}}} \\
s_{1\cdot l_{1\cdot 6}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 6}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 6}}} \\
s_{1\cdot l_{1\cdot 7}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 7}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 7}}} \\
s_{1\cdot l_{1\cdot 8}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 8}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 8}}} \\
s_{1\cdot l_{1\cdot 9}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 9}}} \\
s_{2\cdot s_{1\cdot l_{1\cdot 9}}} \\
s_{1\cdot l_{1\cdot 10}} \]
Test 1.15:116

-------------
Test 1.17:118
Testing address ranges
Test 2.5:124

Test 2.6:125

I2_9

Test 2.7:126

Test 2.9:127

I1_7

Test 2.10:128

I1_7

Test 2.11:129

I1_7

Test 2.12:130

I1_1
I1_2
I1_3
I1_4

Test 2.13:131

I1_1
I1_2
I1_3
I1_4
I1_5
I1_6
I1_7
I1_8
I1_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============
Test 2.14:132
=============
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============
Test 2.15:133
=============
11_4
11_5
11_6
11_10
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============
Test 2.18:136
=============  
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============  
Test 2.19:137
=============  
11_12

=============  
Test 2.20:138
=============  
11_7
Brace and other grouping

=============
Test 3.1:139
=============  
11_1
11_2
11_3
^HT4$
^HT5$
^HT6$
^HT7$
^HT8$
^HT9$
^HT10$
^HT11$
Test 3.2:140

Test 3.3:141

Test 3.4:142
Testing a c d and i commands

Test 4.1:143

before_i1_1
after_i before_i1_1
before_i1_2
after_i before_i1_2
before_i1_3
after_i before_i1_3
before_i1_4
after_i before_i1_4
before_i1_5
after_i before_i1_5
before_i1_6
after_i before_i1_6
before_i1_7
after_i before_i1_7
before_i1_8
after_i before_i1_8
before_i1_9
after_i before_i1_9
before_i1_10
after_i before_i1_10
before_i1_11
after_i before_i1_11
before_i1_12
after_i before_i1_12
before_i1_13
after_i before_i1_13
before_i1_14
after_i before_i1_14
before_i2_1
after_i before_i2_1
before_i2_2
after_i before_i2_2
before_i2_3
after_i before_i2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibefore_il2_9

===========
Test 4.2:144
===========
before_al1_1
after_abefore_al1_1
before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-12l1_5
after_abefore_a5-12l1_5
appended
before_a5-12l1_6
after_abefore_a5-12l1_6
appended
before_a5-12l1_7
after_abefore_a5-12l1_7
appended
before_a5-12l1_8
after_abefore_a5-12l1_8
appended
before_a5-12l1_9
after_abefore_a5-12l1_9
appended
before_a5-12l1_10
after_abefore_a5-12l1_10
appended
before_a5-12l1_11
after_abefore_a5-12l1_11
appended
before_a5-12l1_12
after_abefore_a5-12l1_12
appended
before_al2_1
after_al2_1
before_al2_2
after_al2_2
before_al2_3
after_al2_3
before_al2_4
after_al2_4
before_al2_5
after_al2_5
before_al2_6
after_al2_6
before_al2_7
after_al2_7
before_al2_8
after_al2_8
before_al2_9
after_al2_9
before_al2_10
after_al2_10
before_al2_11
after_al2_11
before_al2_12
after_al2_12
before_al2_13
after_al2_13
before_al2_14
after_al2_14
before_al2_15
after_al2_15
before_al2_16
after_al2_16
before_al2_17
after_al2_17
before_al2_18
after_al2_18
before_al2_19
after_al2_19
before_al2_20
after_al2_20

Test 4.3:145

^11_1
^11_2
^11_3
^11_4
^11_5
^11_6
^11_7

appended
appended
appended
appended
appended
appended
appended

Open Source Used In UCCX 12.5
Test 4.4:146

hello

hello

hello

hello

hello

hello

hello

hello
hello
hello
hello
hello
hello

============
Test 4.5:147
============
hello

============
Test 4.6:148
============
hello

============
Test 4.7:149
============
hello

============
Test 4.8:150
============
Testing labels and branching

============
Test 5.1:151
============
label2_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
label3_label2_l1_13
label2_l1_14
label3_label2_l1_14

============
Test 5.2:152

------------------
tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

------------------
Test 5.3:153

------------------
^l1_1
^l1_1$
^l1_2
^l1_2$
^l1_3
^l1_3$
^l1_4
^l1_4$
l1_5$
l1_6$
l1_7$
l1_8$

------------------
Test 5.4:154

------------------
^l1_1$
^l1_2$
^l1_3$
^l1_4$
^l1_5$
^l1_6$
^l1_7$
^l1_8$
l1_9$
l1_10$
l1_11$
l1_12$
11_13$
11_14$

==============
Test 5.5:155
==============
^l1_1
^l1_2
^l1_4
^l1_6
^l1_8

==============
Test 5.6:156
==============
l1_1
l1_2
l1_3
l1_4
l1_5

==============
Test 5.7:157
==============
l1_1
l1_2
l1_3
l1_4
hello
l1_5

==============
Test 5.8:158
==============
m1_1
m1_2
m1_3
m1_4
m1_5
m1_6
m1_7
m1_8
m1_9
m1_10
m1_11
m1_12
m1_13
m1_14
Pattern space commands

------------------------
Test 6.1:159
------------------------
changed
canceled
canceled
canceled
canceled
canceled
canceled
canceled
canceled
canceled
canceled
canceled
canceled
canceled
canceled
------------------------
Test 6.2:160
------------------------
l1_1
l1_2
l1_3
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
------------------------
Test 6.3:161
------------------------
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
Testing print and file routines

Test 7.1:165

\001\002\003\004\005\006\007\008\009\010\011\012\013\014\015\016\017\018\019\020\021\022\023\024\025\026\027\028\029\030\031\032\033\034\035\036\037
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ\]^_`abcdefghijklmnopqrstuvwxyz{|}~\177\200\201\202\203\204\205\206\207\210\211\212\213\214\215\216\217\220\221\222\223\224\225\226\227\230\231\232\233\234\235\236\237\240\241\242\243\244\245\246\247\250\251\252\253\254\255\256\257\260\261\262\263\264\265\266\267\270\271\272\273\274\275\276\277\300\301\302\303\304\305\306\307\310\311\312\313\314\315\316\317\320\321\322\323\324\325\326\327\330\331\332\333\334\335\336\337\340\341\342\343\344\345\346\347\350\351\352\353\354\355\356\357\360\361\362\363\364\365\366\367\370\371\372\373\374\375\376\377$
$

Test 7.2:166

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
15
12_1
16
12_2
17
12_3
18
12_4
19
12_5
20
12_6
21
l2_7
22
l2_8
23
l2_9

============
Test 7.3:167
============

l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
w results
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12

============
Test 7.4:168
============
l1_1
l1_2
l1_3
l1_4
l2_1
l2_2
l2_3
l2_4
l2_5
Testing substitution commands

Test 8.1:172

Test 8.2:173

Test 8.3:174
Test 8.4:175

l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

Test 8.5:176

l1X1
l1X2
l1X3
l1X4
l1X5
l1X6
l1X7
l1X8
l1X9
l1X10
l1X11
l1X12
Test 8.7:178

Test 8.8:179

x_x1x11
x_x1x12
x_x1x13
x_x1x14
x_x1x15
x_x1x16
Test 8.9:180
11u0
u1
u213
11u0
u1
u214

===============
Test 8.10:181
===============
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X0
11_X1
11_X2
11_X3
11_X4

===============
Test 8.11:182
===============
IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14
s wfile results
IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14

==============
Test 8.12:183
==============
IX_X
IX_X
IX_X
IX_X
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_X0
IX_XX
IX_XX
IX_XX
IX_X4

==============
Test 8.13:184
==============
i8_8
i8_7
i8_6
i8_5
i8_4
i8_3
i8_2
i8_1
i8_0
i8_89
i8_88
i8_87
i8_86
i8_85

==============
Test 8.14:185
Test 8.15:186

Test 8.16:187

eefeeff
Xeeffff
XYeefff
XYYeYff
XYYeYYY
XYYeYYY

Test 8.17:188

&&&&
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* */

package javax.servlet.jsp.tagext;

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

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

public abstract class BodyContent extends JspWriter {

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

    protected BodyContent(JspWriter e) {
        super(UNBOUNDED_BUFFER, false);
        this.enclosingWriter = e;
    }
}
/**
 * Redefine flush().
 * It is not valid to flush.
 */

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

/**
 * Clear the body.
 */

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

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

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

/**
 * Write the contents of this BodyContent into a Writer.
 * Subclasses are likely to do interesting things with the
 * implementation so some things are extra efficient.
 *
 * @param out The writer into which to place the contents of
 * this body evaluation
 */
public abstract void writeOut(Writer out) throws IOException;

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

    public JspWriter getEnclosingWriter() {
        return enclosingWriter;
    }

/**
 * private fields
 */

    private JspWriter enclosingWriter;

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1.1206 setools 3.3.8 :2.el7

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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 Gülcü
 */
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.
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

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 */

package org.slf4j.helpers;

import java.io.ObjectStreamException;
import java.io.Serializable;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

abstract class NamedLoggerBase implements Logger, Serializable {

private static final long serialVersionUID = 7535258609338176893L;

protected String name;

public String getName() {
    return name;
}

}
/**
 * Replace this instance with a homonymous (same name) logger returned
 * by LoggerFactory. Note that this method is only called during
 * deserialization.
 *
 * This approach will work well if the desired ILoggerFactory is the one
 * references by LoggerFactory. However, if the user manages its logger hierarchy
 * through a different (non-static) mechanism, e.g. dependency injection, then
 * this approach would be mostly counterproductive.
 *
 * @return logger with same name as returned by LoggerFactory
 * @throws ObjectStreamException
 */

protected Object readResolve() throws ObjectStreamException {
    // using getName() instead of this.name works even for
    // NOPLogger
    return LoggerFactory.getLogger(getName());
}

1.1239 slf4j-log4j12 1.7.12

1.1240 slf4j-log4j12 1.6.1

1.1241 slf4j-log4j12 1.6.1

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1.1244 smack 3.2.1

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```
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```

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```
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
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Bussjaeger, Andreas
Calvin, Gary
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Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
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Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
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Farrell, Brian
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Frysinger, Mike
Martinian, Emin
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SATO, Yuichi
Snechez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
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1.1336 surefire-testng-3.0.0-M3 3.0.0-M3

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1.1338 swagger-annotations 1.5.18

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 *
 * package io.swagger.annotations;

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

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     * @return an optional URL for the license.
     */
    String url() default "";
}

1.1339 swagger-core 1.5.18

1.1340 swagger-jaxrs 1.5.18

1.1341 swagger-jersey2-jaxrs 1.5.18

1.1342 swagger-models 1.5.18
1.1342.1 Available under license:

```java
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }

    @JsonAnyGetter
    public Map<String, Object> getVendorExtensions() {
        return vendorExtensions;
    }

    @JsonAnySetter
    public void setVendorExtension(String name, Object value) {
        if (name.startsWith("x-")) {
```
vendorExtensions.put(name, value);
}
}

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

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
    if (vendorExtensions == null) {
        if (other.vendorExtensions != null) {
            return false;
        }
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
        return false;
    }
    return true;
}
} else if (!vendorExtensions.equals(other.vendorExtensions)) {
    return false;
}
return true;

1.1343 SwingX 1.6.4
1.1343.1 Available under license :
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Version 2.1, February 1999

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That's all there is to it!

/*
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 * option, any later version, incorporated herein by reference.
#ifndef _LINUX_AUTO_DEV_IOCTL_H
#define _LINUX_AUTO_DEV_IOCTL_H

#include <linux/auto_fs.h>

#ifdef __KERNEL__
#include <linux/string.h>
#else
#include <string.h>
#endif /* __KERNEL__ */

#define AUTOFS_DEVICE_NAME "autofs"
#define AUTOFS_DEV_IOCTL_VERSION_MAJOR 1
#define AUTOFS_DEV_IOCTL_VERSION_MINOR 0
#define AUTOFS_DEVID_LEN 16
#define AUTOFS_DEV_IOCTL_SIZE sizeof(struct autofs_dev_ioctl)

/*
* An ioctl interface for autofs mount point control.
*/

struct args_protover {
    __u32 version;
};

struct args_protosubver {
    __u32 sub_version;
};

struct args_openmount {
    __u32 devid;
};

struct args_ready {
    __u32 token;
};

struct args_fail {
    __u32 token;
    __s32 status;
};

struct args_setpipefd {
/**
 * All the ioctls use this structure.
 * When sending a path size must account for the total length
 * of the chunk of memory otherwise is is the size of the
 * structure.
 */

struct autofs_dev_ioctl {
    __u32 ver_major;
    __u32 ver_minor;
    __u32 size; /* total size of data passed in */
    __s32 ioctlfd; /* automount command fd */

    /* Command parameters */
union {
    struct args_protover	protover;
    struct args_protosubver	protosubver;
    struct args_openmount	openmount;
    struct args_ready	ready;
    struct args_fail	fail;
    struct args_setpipefd	setpipefd;
    struct args_timeout	timeout;
    struct args_requester	requester;
    struct args_expire	expire;
    struct args_askumount	askumount;
    struct args_ismountpoint	ismountpoint;
};

char path[0];
};

static inline void init_autofs_dev_ioctl(struct autofs_dev_ioctl *in) {
    memset(in, 0, sizeof(struct autofs_dev_ioctl));
in->ver_major = AUTOFS_DEV_IOCTL_VERSION_MAJOR;
in->ver_minor = AUTOFS_DEV_IOCTL_VERSION_MINOR;
in->size = sizeof(struct autofs_dev_ioctl);
in->ioctlfd = -1;
return;
}

/*
 * If you change this make sure you make the corresponding change
 * to autofs-dev-ioctl.c:lookup_ioctl()
 */
enum {
    /* Get various version info */
    AUTOFS_DEV_IOCTL_VERSION_CMD = 0x71,
    AUTOFS_DEV_IOCTL_PROTOVER_CMD,
    AUTOFS_DEV_IOCTL_PROTOSUBVER_CMD,

    /* Open mount ioctl fd */
    AUTOFS_DEV_IOCTL_OPENMOUNT_CMD,

    /* Close mount ioctl fd */
    AUTOFS_DEV_IOCTL_CLOSEMOUNT_CMD,

    /* Mount/expire status returns */
    AUTOFS_DEV_IOCTL_READY_CMD,
    AUTOFS_DEV_IOCTL_FAIL_CMD,

    /* Activate/deactivate autofs mount */
    AUTOFS_DEV_IOCTL_SETPIPEFD_CMD,
AUTOFS_DEV_IOCTL_CATATONIC_CMD,

/* Expiry timeout */
AUTOFS_DEV_IOCTL_TIMEOUT_CMD,

/* Get mount last requesting uid and gid */
AUTOFS_DEV_IOCTL_REQUESTER_CMD,

/* Check for eligible expire candidates */
AUTOFS_DEV_IOCTL_EXPIRE_CMD,

/* Request busy status */
AUTOFS_DEV_IOCTL_ASKUMOUNT_CMD,

/* Check if path is a mountpoint */
AUTOFS_DEV_IOCTL_ISMOUNTPOINT_CMD,

};

#define AUTOFS_IOCTL 0x93

#define AUTOFS_DEV_IOCTL_VERSION
_IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_VERSION_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_PROTOVER
_IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_PROTOVER_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_PROTOSUBVER
_IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_PROTOSUBVER_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_OPENMOUNT
_IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_OPENMOUNT_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_CLOSEMOUNT
_IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_CLOSEMOUNT_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_READY
_IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_READY_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_FAIL
_IOWR(AUTOFS_IOCTL, 
   AUTOFS_DEV_IOCTL_FAIL_CMD, struct autofs_dev_ioctl)
#define AUTOFS_DEV_IOCTL_SETPIPEFD  
   _IOWR(AUTOFS_IOCTL,  
       AUTOFS_DEV_IOCTL_SETPIPEFD_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_CATATONIC  
   _IOWR(AUTOFS_IOCTL,  
       AUTOFS_DEV_IOCTL_CATATONIC_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_TIMEOUT  
   _IOWR(AUTOFS_IOCTL,  
       AUTOFS_DEV_IOCTL_TIMEOUT_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_REQUESTER  
   _IOWR(AUTOFS_IOCTL,  
       AUTOFS_DEV_IOCTL_REQUESTER_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_EXPIRE  
   _IOWR(AUTOFS_IOCTL,  
       AUTOFS_DEV_IOCTL_EXPIRE_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_ASKUMOUNT  
   _IOWR(AUTOFS_IOCTL,  
       AUTOFS_DEV_IOCTL_ASKUMOUNT_CMD, struct autofs_dev_ioctl)

#define AUTOFS_DEV_IOCTL_ISMOUNTPOINT  
   _IOWR(AUTOFS_IOCTL,  
       AUTOFS_DEV_IOCTL_ISMOUNTPOINT_CMD, struct autofs_dev_ioctl)

#endif /* _LINUX_AUTO_DEV_IOCTL_H */

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1354 tcl 8.5.13 :8.el7
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1.1357 tcsh 6.18.01 :15.el7

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and other useful pieces of code. If I've left you out, please let me know !

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/

/*
* config.h -- configure various defines for tcsh
* All source files should #include this FIRST.
* Edit this to match your system type.
*/

#define _h_config

/****************** System dependant compilation flags ******************/

/*
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/

#undef POSIX

/*
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/

#undef POSIXJOBS

/*
* VFORKThis machine has a vfork().
*/
*It used to be that for job control to work, this define
*was mandatory. This is not the case any more.
*If you think you still need it, but you don't have vfork,
*define this anyway and then do #define vfork fork.
*I do this anyway on a Sun because of yellow pages brain damage,
*[should not be needed under 4.1]
*and on the iris4d cause SGI's fork is sufficiently "virtual"
*that vfork isn't necessary. (Besides, SGI's vfork is weird).
*Note that some machines eg. rs6000 have a vfork, but not
*with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
 * BSDJOBS You have BSD-style job control (both process groups and
 * a tty that deals correctly
 */
#define BSDJOBS

/*
 * BSDTIMES You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * (OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0
/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/****************** local defines ******************/
#endif /* _h_config */

1.1358 texinfo 5.1 :4.el7
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(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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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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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.

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

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

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

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

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

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

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

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

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

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

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
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For the Rhino JavaScript engine js-1.6R7.jar:

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JPython was created in late 1997 by Jim Hugunin. Jim was also the
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In October 2000 Barry helped move the software to SourceForge
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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.

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
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during execution displays copyright notices, you must include the
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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
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

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

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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PSQLODBC.DLL - A library to talk to the PostgreSQL DBMS using ODBC.

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

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

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

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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
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distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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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
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Whether this is true is especially significant if the work can be
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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
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6. As an exception to the Sections above, you may also combine or
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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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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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 PSQLODBC.DLL - A library to talk to the PostgreSQL DBMS using ODBC.

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
eplode.c) was originally written by Mark Adler who submitted it
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
-------------------
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d9f51a88a045db233418dd73f4 bsd.img

---layout----------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1  2048  4095  1024  83  Linux
__ts_dev__2  4096  20479  8192  a5  FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end     size    fstype  [fsize bsize   cpg]
c:  4096   20479   16384    unused        0     0
  
d:   0   16064   16065    unused        0     0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end     size    fstype  [fsize bsize   cpg]
a:  4096   6144   2049    4.2BSD        0     0
  
c:  4096   20479   16384    unused        0     0
  
d:   0   16064   16065    unused        0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

**BSD disklabel command (m for help):**

0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

**BSD disklabel command (m for help):**

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
#!/bin/bash
#
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" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif exists("b:current_syntax")
  finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^" ][^#]*]+ contained
syn region psfQuotString  start=+"+ skip=+"+ end=+"+ contained

syn match  psfObjTag    \([-\_+A-Z0-9a-zA-Z]+(\.[\_+A-Z0-9a-zA-Z]+)*\)+ contained
syn match  psfAttAbbrev  \(\.|fa|fr|[acqlqrv]|<|>|<=|>=|>|==\)|[^,]+ contained
syn match  psfObjTags   \([-\_+A-Z0-9a-zA-Z]+(\.[\_+A-Z0-9a-zA-Z]+)*\)+ contained
syn match  psfNumber    \d+ contained
syn match  psfFloat     \d+\.|\d+ contained
syn match  psfLongDate  \d{8,10} contained

syn keyword psfState    available configured corrupt installed transient contained
syn keyword psfPState   applied committed superseded contained
syn keyword psfBoolean  false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
"  architecture category_tag control_directory copyright
"  create_date description directory file_permissions install_source
"  install_type location machine_type mod_date number os_name os_release
"  os_version pose_as_os_name pose_as_os_release readme revision
"  share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=--[^s*[^# ]]+[^s*[^# ]]+--rs=e-1 contains=psfUnquotString,psfComment end=--$-- keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=--[^s*[^# ]]+[^s*[^# ]]+--rs=e-1 contains=psfQuotString,psfComment skip=--"-- matchgroup=psfQuotString end=--"-- keepend
" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s+" contains=psfObjTag,psfComment end="$" keepend oneline
	syn region psfAttSpec matchgroup=psfAttrib
start="^\s*(ancestor|applied_patches|applied_to|contents|corequisites|exrequisites|software_spec|
supersedes|superseded_by)\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend
	syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s+" contains=psfObjTags,psfComment end="$" keepend
	syn region psfAttNumber matchgroup=psfAttrib
start="^\s*(compressed_size|instance_id|media_sequence_number|sequence_number|size)\s+" contains=psfNumber,psfComment end="$" keepend oneline
	syn region psfAttTime matchgroup=psfAttrib
start="^\s*(create_time|ctime|mod_time|mtime|timestamp)\s+" contains=psfNumber,psfComment end="$" keepend oneline
	syn region psfAttFloat matchgroup=psfAttrib
start="^\s*(data_model_revision|layout_version)\s+" contains=psfFloat,psfComment end="$" keepend oneline
	syn region psfAttLongDate matchgroup=psfAttrib
start="^\s*install_date\s+" contains=psfLongDate,psfComment end="$" keepend oneline
	syn region psfAttState matchgroup=psfAttrib
start="^\s*(state)\s+" contains=psfState,psfComment end="$" keepend oneline
	syn region psfAttPState matchgroup=psfAttrib
start="^\s*(patch_state)\s+" contains=psfPState,psfComment end="$" keepend oneline
	syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment "#.*$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else

command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment
delcommand HiLink
endif

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

let b:current_syntax = "psf"
*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

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

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

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=== end of license ===

Note:

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

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

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

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

- Once a change is included that goes under the GNU GPL, this forces all
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

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

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

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

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

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.
There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

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

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

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

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

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

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

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

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

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

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

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

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Open Source Used In UCCX 12.5

1.1415 VMware ovftool 4.1.0

1.1415.1 Available under license:

A. HISTORY OF THE SOFTWARE

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

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>>> curl-7.30.0-1

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> Open SSL

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curlx.c  Authors: Peter Sylvester, Jean-Paul Merlin

This is a little program to demonstrate the usage of

- an ssl initialisation callback setting a user key and trustbases coming from a pkcs12 file
- using an ssl application callback to find a URI in the certificate presented during ssl session establishment.

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curl-7.30.0-1\curl-7.30.0.tar.gz\curl-7.30.0.tar\curl-7.30.0\docs\examples\fopen.c

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This example requires libcurl 7.9.7 or later.

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

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

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.

^L

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
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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 Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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Version 2.0, January 2004
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Preamble

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

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

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

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

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

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

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

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1.1436 Xerces2 Java Parser 2.9.1

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1.1440 xercesImpl 2.8.0

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1.1441 xercesImplendorsed 2.6.2

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David Megginson, david@megginson.com
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<module name='Beanshell'  
    licenseType='lgpl (dual license, but LGPL may be chosen)'  
    version='2.0b5'  
    projectHome='http://www.beanshell.org'  
    description='Lightweight Scripting for Java. Uused mainly by the BSH protocol (uncomplete) (runtime)'>  
    <jar name='bsh.jar' />  
</module>  

<module name='byteman'  
    licenseType='LGPL 2.1'  
    version='2.1.0'  
    projectHome='http://www.jboss.org/byteman'>  
    <jar name='byteman.jar' />  
</module>  

<module name='byteman-bmunit'  
    licenseType='LGPL 2.1'  
    version='2.1.0'  
    projectHome='http://www.jboss.org/byteman'>  
    <jar name='byteman-bmunit.jar' />  
</module>  

<module name='byteman-install'  
    licenseType='LGPL 2.1'  
    version='2.1.0'  
    projectHome='http://www.jboss.org/byteman'>  
    <jar name='byteman-install.jar' />  
</module>  

<module name='byteman-submit'  
    licenseType='LGPL 2.1'  
    version='2.1.0'  
    projectHome='http://www.jboss.org/byteman'>  
    <jar name='byteman-submit.jar' />  
</module>  

<module name='creative-commons'
licenseType='creative-commons'
version='2.5'
projectHome='http://creativecommons.org/licenses/by/2.5/
description='Annotations of JCIP'>
<jar name='none (part of src tree: org.jgroups.annotations)' />
</module>

<module name='log4j'
licenseType='apache-2.0'
version='1.2.14'
projectHome='http://logging.apache.org/'
description='Java logging framework (runtime)'>
<jar name='log4j.jar' />
</module>

<module name='serializer'
licenseType='apache-2.0'
version='1.6.5'
projectHome='http://ant.apache.org/
description='ANT (compile time), needed for generation of test reports'>
<jar name='serializer.jar' />
</module>

<module name='testng'
licenseType='apache-2.0'
version='6.8'
projectHome='http://www.testng.org'
description='Used for unit testing'>
<jar name='testng-6.8.jar' />
</module>

<module name='xalan'
licenseType='apache-2.0'
version='2.4.D1'
projectHome='http://xml.apache.org/xalan-j/
description='Xalan-Java is an XSLT processor for transforming XML documents. Used to generate HTML test reports from XML (testing time)'>
<jar name='xalan.jar' />
</module>
</thirdparty-licenses>

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

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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.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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ABOUT XMLPULL API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

1.1486 xpp3_min 1.1.4c

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1.1490 xstream 1.4.10

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1.1494 yum 3.4.3 :154.el7.centos

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """Return all notices."
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
            name = oldpkgtup[0]
            arch = oldpkgtup[1]
            ret = []
+        other_arch_list = []
        notices = set()
        for notice in self.get_notices(name):
            for upkg in notice['pkglist']:
                for pkg in upkg['packages']:
                    other_arch = False
                    if pkg['name'] != name or pkg['arch'] != arch:
                        continue
-                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                            other_arch = True
+                        else:
+                            continue
                        pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                            pkg['version'], pkg['release'])
                        if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                            continue
-                        ret.append((pkgtup, notice))
+                        if other_arch:
+                            other_arch_list.append((pkgtup, notice))
+                        else:
+                            ret.append((pkgtup, notice))
+                            notices.add(notice)
                        for pkgtup, notice in other_arch_list:
                            if notice not in notices:
                                ret.append((pkgtup, notice))

        ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):
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diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org	2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
     def __init__(self, elem=None):
         self._md = {
             'from'   : '',
-        self._repoid = repoid=None, vlogger=None):
+        self._repoid = repoid=None, vlogger=None):
+            self._md = {
+                'from'   : '',
+                'type'   : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
                     self._parse(elem)
                 self._repoid = repoid
                 self._vlogger = vlogger
+                def __getitem__(self, item):
+                    """ Allows scriptable metadata access (ie: un['update_id']). """
+                    if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                         if hasattr(un, '_repoid') and un._repoid is not None:
                         return un._repoid
+                        return '<unknown>'
```

---
```python
+ def _log_failure(data):
+     
+     def _log_failure(data):
+         """Log the mismatched data similarly to conflict markers in git."""
+         if self._vlogger is None:
+             return
+         msg = _('Duplicate of %s differs in some fields:
' +
+             + msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+             + msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+             + msg += '>>>>>>> %s:%s' % (_rid(self), data)
+         # --verbose mode enables this
+         self._vlogger.log(logginglevels.DEBUG_3, msg)
+         if not other or not hasattr(other, '_md'):
+             return False
+
+ @-113,6 +134,7 @@ class UpdateNotice(object):
+         if data == 'status': # FIXME: See below...
+             continue
+         if self._md[data] != other._md[data]:
+             _log_failure(data)
+             return False
+     # FIXME: Massive hack, Fedora is really broken and gives status=stable
+     # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
+             if self._md[data] not in ('stable', 'testing'):
+                 _log_failure(data)
+                 return False
+             if other._md[data] not in ('stable', 'testing'):
+                 _log_failure(data)
+                 return False
+         # They are both really "stable" ...
+         self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
+             except UpdateNoticeException, e:
+                 un = UpdateNotice(elem, repoid, self._vlogger)
+                 except UpdateNoticeException, e:
+                     msg = _("An update notice%ss is broken, skipping.") % _rid(repoid)
+                     if self._vlogger:
+                         msg = _("Update notice %s%ss is broken, or a bad duplicate, skipping.") % (un['update_id'],
+     un = UpdateNotice(elem)
+     un = UpdateNotice(elem, repoid, self._vlogger)
+     except UpdateNoticeException, e:
+         msg = _("An update notice%ss is broken, skipping.") % _rid(repoid)
+         if self._vlogger:
+             msg = _("Update notice %s%ss is broken, or a bad duplicate, skipping.") % (un['update_id'],
+     @-587,6 +611,8 @@ class UpdateMetadata(object):
+             if not have_dup:
+                 msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s ")
```

msg += _n('If you are the owner, consider re-running the same command with --verbose to see the ' +
'exact data that caused the conflict.')

have_dup = True
if self._vlogger:
    self._vlogger.warn("%s", msg)

1.1495 yum-metadata-parser 1.1.4 :10.el7
1.1495.1 Available under license :
    From RPM File Metadata:GPLv2

1.1496 yum-utils 1.1.31 :42.el7
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1.1497 zip 3.0 :11.el7

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1.1499 zlib 1.2.7

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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1.1500 zlib-cloudflare 1.2.8

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