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Files: ace/Get_Opt.cpp

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Files: examples/C++NPv1
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Implementation and Compiler 1.1

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If such an object file uses only numerical parameters, data

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1.11 angular 1.6.5

1.12 angular-animate 1.6.5

1.13 angular-aria 1.6.5

1.14 angular-messages 1.6.5

1.15 angular-sanitize 1.6.5

1.16 angular-ui-grid 3.0.7

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1.17 angular-ui-router 0.2.15

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1.18 AngularJS Toaster 2.0.0

1.19 animal-sniffer-annotations 1.18

1.20 annotations-api 6.0.20

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1.38 apache-xerces 2.9.1

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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.

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* PARC initial implementation

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Version 3, 29 June 2007

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```
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From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.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 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 spcedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@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 spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} 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)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>

} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} 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
}-- End of excerpt from Chet Ramey

From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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

```

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

<div id="container">

  <div id="content">

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

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</html>

1.60 better-monads 0.4.1

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

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* `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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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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* `configure.ac`, `Makefile.am`: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

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

* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were

derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!--
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-
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-->

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

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

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

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  </template>
</stylesheet>
```

```

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

```

```

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

```

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```

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

```

```

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

```

```

</xsl:stylesheet>

```

```

<!--
- Local variables:
- mode: sgml

```

- End:

-->

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1.62 binutils 2.27 :34.base.el7_6

1.62.1 Available under license :

(This file is under construction.) -*- text -*-

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

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

+++++

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

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

K. Richard Pixley maintained gas for a while, adding various

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k,

i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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[This is the first released version of the library GPL. It is
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<signature of Ty Coon>, 1 April 1990
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Version 2, June 1991

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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.

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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.

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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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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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.

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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@cindex LGPL, Lesser General Public License
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@appendixsubsec Preamble

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

We call this license the `@dfn{Lesser} General Public License` because it does `@emph{Less}` to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

```
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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
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```
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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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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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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.

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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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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.

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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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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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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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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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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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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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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

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

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

```
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```
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```

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Version 2, June 1991

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(This file is under construction.) -*- text -*-

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

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

+++++

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

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

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Ty Coon, President of Vice

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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@appendixsubsec Preamble

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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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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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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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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.

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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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The modified work must itself be a software library.

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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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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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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.)

@end enumerate

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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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.

@item

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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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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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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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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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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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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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.

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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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@appendixsubsec 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.

@smallexample

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

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

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@end smallexample

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:

```
@smallexample
```

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the library  
'Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
@end smallexample
```

That's all there is to it!

1.63 boost 1.53.0 :27.e17

1.63.1 Available under license :

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```
////////////////////////////////////
```

```
//
```

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```

```
//
```

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```

```
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```

```
// http://www.boost.org/LICENSE\_1\_0.txt)
```

```
//
```

```
// See http://www.boost.org/libs/intrusive for documentation.
```

```
//
```

```
////////////////////////////////////
```

```
#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

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

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

#endif

// 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, 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; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

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

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(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
#ifndef 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; };

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 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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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

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

#include <cstdint>

namespace boost {
namespace interprocess {
namespace ipcdetail {

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_;
};

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 {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
////////////////////////////////////////////////////////////////
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#include <cstddef>

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> {};

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:
    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 unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<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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```

=====/]

```

```

=====

```

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```

=====

```

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- adapted geometry types e.g. array, Boost.Polygon
- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections

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```
[/
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http://www.boost.org/LICENSE_1_0.txt).
]
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="up" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
```

```

</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
<td align="center"><a href="../../../../index.html">Home</a></td>
<td align="center"><a href="../../../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../../../more/index.htm">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="../../index.html"></a><a accesskey="h"
href="../../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
<div class="section boost_traits_mpl">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_traits_mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an <a href="../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>: that includes a number of rather intrusive workarounds
for broken compilers.
</p>
<p>
Purely as an implementation detail, this means that <code class="computeroutput"><a class="link"
href="reference/integral_constant.html" title="integral_constant">true_type</a></code>
inherits from <a href="../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code></a>,
<code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">false_type</a></code>
inherits from <a href="../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">false_</span></code></a>,
and <code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">integral_constant</a><span class="special"></span><span
class="identifier">T</span><span class="special">,</span>
<span class="identifier">v</span><span class="special"></span></code>
inherits from <a href="../../../../libs/mpl/doc/refmanual/integral-c.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">integral_c</span><span
class="special"></span><span class="identifier">T</span><span class="special">,</span><span
class="identifier">v</span><span class="special"></span></code></a>

```

```
(provided <code class="computeroutput"><span class="identifier">T</span></code> is not <code class="computeroutput"><span class="keyword">bool</span></code>)
```

```
</p>
</div>
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright © 2000, 2011 Adobe Systems Inc, David
Abrahams,
    Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
    Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
    Watanabe<p>
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target="_top">http://www.boost.org/LICENSE_1_0.txt</a>
    </p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="index.html"></a><a accesskey="h"
href="index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>
```

```
[/
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]
```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [@ ../../libs/mpl/doc/refmanual/integral-constant.html 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 [@ ../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`], `__false_type` inherits from [@ ../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [@ ../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

```
[endsect]
<?xml version="1.0" encoding="utf-8"?>

<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
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      (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
-->
```

```
<section id="date_time.license">
  <title>Boost Date-Time Library License</title>
  <bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
  <!--
  <ulink url="../../index.htm">
    <imagedata align="left"
      format="GIF"
      fileref="../../boost.png"
      alt="C++ Boost" />
  </ulink-->
  <!--hr /-->
  <para>
    The following is the overall license for the boost date_time
    library. This notice is found in all source files related to the
    library.
  </para>
  <para>
    Copyright &#169; 2002 CrystalClear Software, Inc.
  </para>
  <para>
    Permission to use, copy, modify, distribute and sell this software
    and its documentation for any purpose is hereby granted without
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    and that both that copyright notice and this permission notice
    appear in supporting documentation. CrystalClear Software makes no
    representations about the suitability of this software for any
    purpose. It is provided "as is" without express or implied
    warranty.
  </para>
  <!--hr / -->
  <ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
  &#169; 2000-2002
</section>
```

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[article Invalid copyright years

[quickbook 1.5]

[copyright 2010-2001 Timequake man]

]

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
```

```
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
```

```
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
```

```
xmlns:xi="http://www.w3.org/2001/XInclude">
```

```
<title>Copyright Test</title>
```

```
<articleinfo>
```

```
<copyright>
```

```
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
```

```
</copyright>
```

```
<copyright>
```

```
<year>2018</year> <holder>Joe Blow, John Coe</holder>
```

```
</copyright>
```

```
<copyright>
```

```
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
```

```
</copyright>
```

```
</articleinfo>
```

```
</article>
```

[article Copyright Test

[quickbook 1.5]

[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]

[copyright 1977,1985 Someone else]

]

[article Invalid copyright

[quickbook 1.5]

[copyright No year]

]

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 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@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(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) 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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```
/+\
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 *
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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();

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";

```

```

if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    "</title>\n"
    "</head>\n"
    "<body>\n"
    "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    "</H1>\n"
    "<H2>Contents</h2>\n"
    "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
    os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
    // title:
    os << " <A href=\"#\" << make_link_target(licenses.first[i->first].license_name)
        << "\">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

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

//
// input Information:
//

```

```

os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>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 << "<p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// 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:]]*#[[:blank:]]*define[[[:blank:]]+BOOST_VERSION[[[:blank:]]+](\\d+)");
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 << "<p>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=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(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:</P>\n<BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
        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<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"

```



```

    << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
if (!m_converted_to_bsl.empty())
{
    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();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            << "</tt><br>\n<table border='1'\n <tr>\n <td><pre>"
            << i->second.first << "</pre></td>\n <td><pre>"
            << i->second.second << "</pre></td>\n </tr>\n</table>\n";
        ++i;
        ++file_num;
    }
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name='to-bsl'\n">Files that could be converted to the Boost Software License</h2>\n"
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name='not-to-bsl'\n">Files that can NOT be converted to the Boost Software
License</h2>\n"
"<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>\n<BLOCKQUOTE><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>\n";
    ++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\"></a>Authors we need for the BSL</h2>\n"
    "<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>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
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><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 << "</td></tr>\n";
    ++ad;
}
os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
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>";
                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
{
#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
    void f(int);
-#else
-   enum {
-   n =
-# if defined(__EDG_VERSION__)
-   aux::dependent_unsigned<T>::value > -1
-# else
-   sizeof(T) > -1
-# endif
-   };
-#endif
+##elif defined(__EDG_VERSION__)
+   enum { n = aux::dependent_unsigned<T>::value > -1 };
+##elif defined(BOOST_GCC)
+   enum { n1 };
+   enum { n2 };
+   enum { n = n1 != n2 };
+##else
+   enum { n = sizeof(T) > -1 };
+##endif
};

#if defined(BOOST_MSVC)

```

1.64 bootstrap 3.2.0 :3.2.0

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1.65 bootstrap-datepicker 1.0

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1.66 bzip2 1.0.6 :13.e17

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

1.67 c-ares 1.7.5

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1.69 ca-certificates 2017.2.14 :71.e17

1.70 cactus-12 1.5

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</body>

</html>

/*

* \$Header: /home/cvs/jakarta-cactus/LICENSE.httpclient,v 1.1 2002/03/10 14:32:48 vmassol Exp \$

* \$Revision: 1.1 \$

* \$Date: 2002/03/10 14:32:48 \$

*

* =====

*

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*

*/

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"
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"http://www.w3.org/TR/html4/loose.dtd">
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<META http-equiv="Content-Type" content="text/html; charset=UTF-8">
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<meta name="author" content="Vincent Massol, Nicholas Lesiecki">
```

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```

```
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<a href="http://jakarta.apache.org/"></a>
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<li class="menuItem">

Who Uses Cactus?

<li class="menu">Developers

<li class="menuItem">

Roadmap/ToDo

<li class="menuItem">

Nightly Build Results

<li class="menuItem">

Coding Conventions

<li class="menuItem">

CVS

<li class="menuItem">

Building From Source

<li class="menuItem">

Code Coverage Reports

<li class="menuItem">

Release Checklist


```
<li class="menu">Miscellaneous<ul>
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<li class="menuItem">
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<a href="../../participating/logos.html" title="Logos for Cactus proposed by various people.">Logo Challenge</a>
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</ul>
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</li>
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</ul>
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<div id="content">
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<div class="section">
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<h1>Meritocracy</h1>
```

```
<blockquote>
```

```
<p>
```

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.

```
</p>
```

```
<p>
```

All contributions are welcome (see the [Participating](../../participating/index.html "Information on participating in the development of Cactus.") page).

The final decision of what becomes part of the official distribution is made by a group of [Committers](#committers).

For more about Meritocracy, see the

[Management page](http://jakarta.apache.org/site/roles.html "Management page") on the Apache Jakarta Website.

```
</p>
```

```
</blockquote>
```

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

```
<li>
```

```
<a href="mailto:Bob.Davison@reuters.com" title="">Bob Davison</a>
```

```
</li>
```

```
<li>
```

```
<a href="mailto:digital@ix.net.au" title="">Robert Leftwich</a>
```

```
</li>
```

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<li>
```

```
<a href="mailto:jariw@hyperlink-interactive.co.uk" title="">Jari  
  Worsley</a>
```

```
</li>
```

```
<li>
```

```
<a href="mailto:ndlesiecki@apache.org" title="">Nicholas Lesiecki</a>
```

```
</li>
```

```
<li>
```

```
<a href="mailto:HUDSONCWONG@YAHOO.COM" title="">Hudson Wong</a>
```


Jason Robertson

Peter Wong

Christopher Lenz

Julien Ruaux

Atsushi Hasegawa

Jerome Grelier

</blockquote>

</div>

<div class="section">

<h1>Documentation contributors</h1>

<blockquote>

Vincent
Massol

Cedric Chabanois

Andrew B Forman

Todd Idler

Kunal
Vaishnav

Nicholas Lesiecki

Hudson Wong

Kaarle Kaila

Sean Zhang

 Matt Sullivan

Alan Perfect

Julien Ruaux

Christopher Lenz

</blockquote>

</div>

<!--anchor-->

<div class="section">

<h1>Committers</h1>

<blockquote>

Vincent
Massol

Jari
Worsley

Nicholas Lesiecki

Julien Ruaux

Christopher Lenz

</blockquote>

</div>

<div class="section">

<h1>Special thanks</h1>

<blockquote>

<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>

</blockquote>
</div>

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

<p>
Vincent Massol
-- Committer

</p>

<p>
I started designing internet applications in 1998, when I joined
OCTO Technology, 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.

</p>

<p>

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 !

</p>

<p>

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.

</p>

<p>

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 ! :-)

</p>

<p>

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?](http://cactusname.html "Some background information about how Cactus got its 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.

</p>

<p>

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 !

</p>

<p>

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.

</p>

<p>

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>

<p>

More info on my current open source involvements can be found [here](http://c2.com/cgi/wiki?VincentMassol).

</p>

<!--anchor-->

<p>

 Nicholas Lesiecki
 -- Committer

</p>

<p>
 I became involved in Cactus while co-authoring
 Java Tools for Extreme
 Programming. (See
 our resources
 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 commiter status.
</p>

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

<p>
 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.).
</p>

</blockquote>
</div>

</div>
</td>
</tr>
</table>


```

<div id="main">
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<tr>
<td valign="top">
<div id="sidebar">
<div id="navigation">
<ul>

<li class="menu">About</li>

<li class="menuItem">
<a href="/index.html" title="Describes what the Cactus framework is, defines several types of unit tests and explains which are best implemented with Cactus.">Overview</a>
</li>

<li class="menuItem">
<a href="/goals.html" title="Short and long term goals for Cactus.">Goals</a>
</li>

<li class="menuItem">
<a href="/features.html" title="Cactus feature list.">Features</a>
</li>

<li class="menuItem">
<a href="/news.html" title="Latest news and events about Cactus.">News</a>
</li>

<li class="menuItem">
<a href="/changes.html" title="Cactus release changelogs and list of all the web site pages that have been recently changed.">Changes</a>
</li>

<li class="menuItem">
<a href="/downloads.html" title="Downloads of Cactus releases and nightly builds.">Downloads</a>
</li>

<li class="menuItem">
<a target="bug_database" href="http://jakarta.apache.org/site/bugs.html">Bug Database</a>
</li>

<li class="menuItem">
<a href="/mailinglist.html" title="Information about the Cactus mailing lists.">Mailing Lists</a>
</li>

<li class="menuItem">
<a href="/faq.html" title="Questions frequently asked (and sometimes answered)">FAQ</a>
</li>

```

```
<li class="menuItem">
<a href="/license.html" title="The Cactus License." class="currentPage">License</a>
</li>

</ul>
</li>

<li class="menu">Documentation<ul>

<li class="menuItem">
<a href="/getting_started.html" title="Gentle introduction to get you up to speed with Cactus.">Getting Started</a>
</li>

<li class="menuItem">
<a href="/how_it_works.html" title="High level view of the inner workings of Cactus.">How It Works</a>
</li>

<li class="menuItem">
<a href="/writing/howto_testcase.html" title="Introduction to writing Cactus-based unit tests.">Writing Tests</a>
</li>

<li class="menuItem">
<a href="/integration/index.html" title="Information on the various methods of running tests with
Cactus.">Running Tests</a>
</li>

<li class="menuItem">
<a href="/participating/index.html" title="Information on participating in the development of
Cactus.">Participating</a>
</li>

</ul>
</li>

<li class="menu">Miscellaneous<ul>

<li class="menuItem">
<a href="/cactusname.html" title="Some background information about how Cactus got its name.">Why the
Name?</a>
</li>

<li class="menuItem">
<a href="/mock_vs_cactus.html" title="Discussion of in-container testing as compared to using a mock objects
approach.">Mock vs Container</a>
</li>
```



```
<li class="menuItem">
<a href="/testedon.html" title="A list of containers that Cactus was tested on for each release.">Tested On...</a>
</li>
```

```
<li class="menuItem">
<a href="/resources/index.html" title="Links to Cactus related resources.">Resources</a>
</li>
```

```
<li class="menuItem">
<a target="stats" href="http://jakarta.apache.org/cactus/stats/index.html">Statistics</a>
</li>
```

```
<li class="menuItem">
<a href="/sitemap.html" title="List of all site resources.">Sitemap</a>
</li>
```

```
</ul>
</li>
```

```
<li class="menu">Translations<ul>
```

```
<li class="menuItem">
<a target="korean" href="http://jakarta.apache-korea.org/cactus/index.html">Korean</a>
</li>
```

```
<li class="menuItem">
<a target="japanese" href="http://www.ingrid.org/jakarta/cactus/">Japanese</a>
</li>
```

```
</ul>
</li>
```

```
</ul>
</div>
</div>
</td><td valign="top">
<div id="content">
```

```
<div class="section">
<h1>Cactus Public License</h1>
```

<blockquote>

<div class="source">

<pre>

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</pre>

</div>

</blockquote>

</div>

</div>

</td>

</tr>

</table>

</div>

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</div>

</body>

</html>

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* \$Header: /home/cvpublic/jakarta-commons/logging/LICENSE.txt,v 1.2 2003/04/06 20:37:31 rdonkin Exp \$

* \$Revision: 1.2 \$

* \$Date: 2003/04/06 20:37:31 \$

*

* =====

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1.71 cairo 1.14.8 :2.e17

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```
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```

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```

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Ty Coon, President of Vice
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1.134 compat-db 4.7.25 :28.el7

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BUILD= license_db.html

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1.135 compat-gcc 32 3.2.3 :72.el7

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```

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

```
<head>
```

```
  <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
  <meta name="AUTHOR" content="pme@gcc.gnu.org (Phil Edwards)" />
```

```
  <meta name="KEYWORDS" content="libstdc++, license, licence" />
```

```
  <meta name="DESCRIPTION" content="Copying restrictions for libstdc++." />
```

```
  <meta name="GENERATOR" content="vi and eight fingers" />
```

```
  <title>libstdc++-v3 copying</title>
```

```
<link rel="StyleSheet" href="..lib3styles.css" />
```

```
</head>
```

```
<body>
```

```
<h1 class="centered"><a name="top">Licenses for the Library</a></h1>
```

```
<p>There are two licenses affecting GNU libstdc++-v3: one for the code, and one for the documentation. Here we will describe both of them, and try to answer some of the widespread questions. If you have more questions, ask the FSF or the
```

```
<a href="http://gcc.gnu.org/lists.html">gcc mailing list</a>; the person writing this page is a programmer, not a lawyer.
```

```
</p>
```

```
<hr />
```

```
<h2>The Code: Runtime GPL</h2>
```

```
<p>The source code of libstdc++-v3 is distributed under version 2 of the
```

```
<a href="COPYING">GNU General Public License</a>, with the so-called "runtime exception," as follows (or see any header or
```

implementation file):

</p>

<pre>

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</pre>

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</p>

<!-- Most of the Q&A's are based on, paraphrased from, and outright stolen from this thread:

<http://gcc.gnu.org/ml/libstdc++/2000-q2/subjects.html#00050>

-->

<p>Q: So any program which uses libstdc++ falls under the GPL?

A: No. The special exception permits use of the library in proprietary applications.

</p>

<p>Q: How is that different from the GNU {Lesser,Library} GPL?

<!-- Quoting Jason Merrill from the thread above: -->

A: The LGPL requires that users be able to replace the LGPL code with a modified version; this is trivial if the library in question is a C shared library. But there's no way to make that work with C++, where much of the library consists of inline functions and templates, which are expanded inside the code that uses the library. So to allow people to replace the library code, someone using the library would have to distribute their own source, rendering the LGPL equivalent to the GPL.

</p>

<p>Q: I see. So, what restrictions are there on programs that use the library?

A: None. We encourage such programs to be released as open source, but we won't punish you or sue you if you choose otherwise.

</p>

<hr />

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<!-- ##### -->

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</p>
</body>
</html>

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Ty Coon, President of Vice

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)
Norm Schryer (then AT&T Bell Labs, now AT&T Labs)
Please send bug reports to dmg@research.bell-labs.com .

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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:gcr0.o%s}%{!pg:%{p:gcr0.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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```

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```
#define MIPS_BSD43

#define CPP_PREDEFINES "\
-Dmips -Dunix -Dhost_mips -DMIPSEB -DR3000 -DSYSTYPE_BSD43 \
-D_mips -D_unix -D_host_mips -D_MIPSEB -D_R3000 -D_SYSTYPE_BSD43 \
-Asystem=unix -Asystem=bsd -Acpu=mips -Amachine=mips"

#define STANDARD_INCLUDE_DIR "/bsd43/usr/include"

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

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

#define STARTFILE_SPEC "%{pg:gcr0.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 "\t.ascii\t"
#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 "\t.byte\t"
#define ASM_OUTPUT_ASCII(f, p, size) \
do { register size_t i, limit = (size); \
int inside; \
inside = FALSE; \
for (i = 0; i < limit; i++) { \
if (i % 64 == 0) { \
if (i != 0) { \
if (inside) \
putc("", (f)); \
putc('\n', (f)); \
inside = FALSE; \
} \
fprintf((f), "%s", ASCII_DATA_ASM_OP); \
} \
if ((p)[i] < 32 || (p)[i] == '\\' || (p)[i] == '"' || (p)[i] >= 127) { \
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('\n', (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@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(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) 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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```
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```

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

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

```
Ty Coon, President of Vice
```

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```
/* Permission.java -- The superclass for all permission objects
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```
exception statement from your version. */
```

```
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 <code>Permission</code>
 *
 * @return The name of this <code>Permission</code>
 */
public final String getName()
{
    return (name);
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>.
 *
 * @return The action list for this <code>Permission</code>.
 */
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() +
        "\" + \" + 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
   Copyright (C) 1998 Free Software Foundation, Inc.

```

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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  
* java.security.Permission.
```

```
*
```

```
* @version 0.0
```

```
*
```

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

```
*/
```

```
public interface Permission
```

```
{
```

```
/**
```

```
* This method tests whether or not a specified Permission  
* (passed as an Object) is the same as this permission.
```

```
*
```

```
* @param perm The permission to check for equality
```

```
*
```

```
* @return true if the specified permission is the same as this one, false 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();
}

```

1.136 ConverterXmlJSon 0.9

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```
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```

```
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```

```
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```

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1.140 cracklib 2.9.0 :11.e17

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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

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

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
=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.
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> 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
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike 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?
>>
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>> linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

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

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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

>>

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

>

> yes. go for it. thanks++

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

-mike

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

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

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

```
#!/usr/bin/python
# Copyright 2009, 2012 Jan Dittberner <jan@dittberner.info>
#
# This file is part of cracklib.
#
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# 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.
```

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

1.141 cronie 1.4.11 :17.el7

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

*/

1.142 cryptsetup 1.7.4 :3.e17

1.142.1 Available under license :

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Version 2.1, February 1999

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```
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```
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```

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<signature of Ty Coon>, 1 April 1989
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1.143 csvjdbc .10

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1.144 cups 1.6.3 :29.e17

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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

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

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``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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Version 2, June 1991

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

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That's all there is to it!

<HTML>

<!-- SECTION: Getting Started -->

<HEAD>

<TITLE>Software License Agreement</TITLE>

<LINK REL="STYLESHEET" TYPE="text/css" HREF=" ../cups-printable.css">

</HEAD>

<BODY>

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1 Infinite Loop

Cupertino, CA 95014 USA

WWW: http://www.cups.org/

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<P>Version 2, June 1991

<PRE>

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</PRE>

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<OL START="0">

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<PRE>

<VAR>one line to give the program's name and an idea of what it does.</VAR>

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</PRE>

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

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

```
<PRE>
Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>
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.
</PRE>
```

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

<P>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:

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

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

<H2 CLASS="title">GNU LIBRARY GENERAL PUBLIC LICENSE</H2>

<P>Version 2, June 1991

<PRE>

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[This is the first released version of the library GPL. It is
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</PRE>

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<P>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.

<P>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.

<P>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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<P>"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.

<P>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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<OL TYPE="a">

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<P>

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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<P>(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 License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

<P>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.

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

<P>4.

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<P>5.

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<P>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.

<P>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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<OL TYPE="a">

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<P>

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.

<P>

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.

<P>

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

<P>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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<OL TYPE="a">

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<P>

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</BODY>

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1.145 curl 7.29.0 :46.2.el7.centos

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1.152 DbUnit Framework 2.4.8

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That's all there is to it!

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

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-->

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

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

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

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

<xsl:param name="text"/>

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

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

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

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

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

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

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

</xsl:call-template>

</xsl:if>

</xsl:template>

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

<xsl:text>

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

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

</xsl:stylesheet>

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

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=====

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.168 dosfstools 3.0.20 :9.e17

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

```
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```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
```

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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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1.171 DWR 2.0.3

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1.172 e2fsprogs 1.42.9 :10.el7

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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:
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23-June-2007

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

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

That's all there is to it!
/*

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

```

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell      2005
+ Copyright (C) Andrew Tridgell      1999-2005
+ Copyright (C) Jeremy Allison      2000-2006
+ Copyright (C) Paul `Rusty' Russell  2000

** 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)

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

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

install-strip: install

```

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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Gadi Oxman, August 1995

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```
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```

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```

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<signature of Ty Coon>, 1 April 1989
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1.173 ebttables 2.0.10 :15.el7

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```

```
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Ty Coon, President of Vice
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1.174 ecs 1.4.2

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1.175 ehcache 2.2.0

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1.176 elfutils 0.170 :4.e17

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1.178 elfutils-libs 0.172

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1.179 error_prone_annotations 2.3.2

1.180 es6-enum 1.1.0

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1.181 esapi 2.1.0

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* @author Jeff Williams Aspect Security

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1.185 eventie 1.0.6

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1.189 fetch 2.0.4

1.190 file 5.11 :33.el7

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```
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1.202 formly 7.3.9

1.203 FreeMarker 2.3.15

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1.204 freetype 2.4.11 :15.e17

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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 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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1.206 gamin 0.1.10 :16.el7.x86_64

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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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(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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1.207 gawk 4.0.2 :4.e17_3.1

1.207.1 Available under license :

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Version 2, June 1991

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

Preamble

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code. If you link a program with the library, you must provide
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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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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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Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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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.

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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.

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1. Source Code.

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.

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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.

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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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```
<program> Copyright (C) <year> <name of author>  
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```

The hypothetical commands `show w' and `show c' should show the appropriate
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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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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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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 2, June 1991

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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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```
#!/usr/bin/env python
```

```
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```

```

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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/armcopro.c", "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-acccfp.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/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_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_phb.c", "sim/ppc/hw_eeeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",

```

```

"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

```

```

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";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\.[ ]*$/)
{
printf " printf_filtered (\\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\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 (\\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\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/}

```

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```

@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

```

```

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

```

```

@display
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.

```
@end display
```

```
@heading Preamble
```

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@enumerate 0

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@enumerate a

@item

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@item

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@enumerate a

@item

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@item

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@item

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@item

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@item

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@end enumerate

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Corresponding Source conveyed, and Installation Information provided,

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Version 3, 29 June 2007

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

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```
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```

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1.212 gdk-pixbuf2 2.36.5 :1.e17

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<div class="titlepage"><div><div><h1 class="title">
<a name="license"></a>AppendixA.License</h1></div></div></div>
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1.213 genson 1.3

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1.220 glib-networking 2.50.0 :1.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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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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1.221 glib2 2.56.1 :2.e17

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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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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date: Sun Dec 22 14:49:48 2013 +0000
```

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

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

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

by .c files there.

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

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

```

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File name Caller Syscall name # args Strong name Weak names
-
-chflags - chflags 2 chflags
-fchflags - fchflags 2 fchflags
-revoke - revoke 1 revoke
-setlogin - setlogin 2 setlogin
-sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
-wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c

```

```

rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File name Caller Syscall name # args Strong name Weak names

```

```

+chflags - chflags 2 chflags
+fchflags - fchflags 2 fchflags
flock - flock 2 __flock flock
getdents - getdirentries 4 __getdirentries getdirentries
getdentsz - getdtablesize 0 __getdtablesize getdtablesize
getpagesize - getpagesize 0 __getpagesize getpagesize
killpg - killpg 2 killpg
-sigblock - sigblock 1 __sigblock sigblock
+revoke - revoke 1 revoke
+setlogin - setlogin 2 setlogin
+sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
sigpause - sigpause 1 __sigpause sigpause
-sigsetmask - sigsetmask 1 __sigsetmask sigsetmask
sigstack - sigstack 2 sigstack
sigvec - sigvec 3 __sigvec sigvec
-wait3 - wait3 3 __wait3 wait3
-waitpid - waitpid 3 __waitpid waitpid
+wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%

```

```
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1,1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
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1.223 glibc-common 2.17 :260.el7

1.224 gmp 6.0.0 :15.el7

1.224.1 Available under license :

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Version 3, 29 June 2007

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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For details see http://shiftleft.org/papers/vector_aes/ and

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Help produce Guile wrappers for GnuTLS types.

```
;;;
```

```
;;; GnuTLS --- Guile bindings for GnuTLS.
```

```
;;; Copyright (C) 2007, 2010-2012 Free Software Foundation, Inc.
```

```
;;;
```



```
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```

1.228 gobject-introspection 1.50.0 :1.e17

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```
@enumerate 0
@item Definitions.
```

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@item

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```
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```

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```
@end enumerate
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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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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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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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That's all there is to it!

1.235 grep 2.20 :3.e17

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Version 3, 29 June 2007

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AUTHOR

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. 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.

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src/preproc/grn/gprint.h

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

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

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

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

src/libs/libxutil/DviChar.c
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. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
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tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
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. 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

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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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1.243 Groovy 1.7.5

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The primary ANTLR guy:

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/***

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

*

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

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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 ++++++++
include/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

1.245 grubby 8.28 :23.e17

1.245.1 Available under license :

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Version 2, June 1991

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1.246 gsettings-desktop-schemas 3.22.0

:1.e17

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Ty Coon, President of Vice
```

That's all there is to it!

1.247 gsm 1.0.13 :11.el7

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

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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.

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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.

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

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

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's

free use or not licensed at all.

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

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

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

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

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

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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.

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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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Doug Lea

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10.0.1

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```

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```
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```

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1.264 harfbuzz 1.3.2 :1.e17

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"Source code" for a work means the preferred form of the work for

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

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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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1.270 hk2-api 2.5.0-b42

1.271 hk2-locator 2.5.0-b42

1.272 hk2-utils 2.5.0-b42

1.273 hmacalc 0.9.13 :4.el7

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 */
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1.274 hostname 3.13 :3.el7

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1.281 httpcore-4.4.10 4.4.10

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```
## -*-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}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -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

```

1.284 icu4c 49.1.2

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1.292 iputils 20160308 :10.e17

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- * encoding: US-ASCII
- * tab size: 8 (not used)
- * indentation:4
- *
- * created on: 2005jan16
- * created by: Markus W. Scherer
- *
- * Low-level Unicode bidi/shaping properties access.
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>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 bold font" has range (4, 8) replaced with "strong", then it becomes "the strong 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: `length()`, `charAt()`,
`char32At()`, and `extractBetween()`.

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

-

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

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

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

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

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

-

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

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@author Alan Liu

@stable ICU 2.0

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

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

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@see Replaceable

@author Alan Liu

@stable ICU 2.0

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*/
```

```
package java.security;
```

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

```
/**
```

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

```
*/
```

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

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

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

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

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

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

1.295 jackson-annotations 2.9.5

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1.302 jackson-core-asl 1.9.2

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1.303 jackson-databind 2.9.10.1

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/* Jackson JSON-processor.

*

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*

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1.314 jackson-mapper-asl 1.9.2

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1.318 jackson-xc 1.9.2

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1.325 java-1.7.0-openjdk 1.7.0.231

:2.6.19.1.el7_6

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1.326 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;
import java.security.PrivilegedExceptionAction;

/**
 * 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 final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private final int pid;
    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.");
                }
            }
        });
}

/* this is for the reaping thread */
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 not -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<ThreadGroup> () {
            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(newFileDescriptor(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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#
# 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

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dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

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dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

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sequence.allfonts.Big5=chinese-big5,latin-1

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sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

Font File Names

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```

```

SUNWprivate_1.1 {

```

```

  global:

```

```

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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_unlinkat0;
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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```
#
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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_BytePackedRaster_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 compatability.
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
    # This is in awt_LoadLibrary.c and falls through to libmawt.
    # Evidently plugin needs this for backward compatability.
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__1requestFocus;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_getState;
#Java_sun_awt_motif_MComponentPeer_pSetForeground;
#Java_sun_awt_motif_MDragSourceContextPeer_startDrag;
#Java_sun_awt_motif_MDragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_MDropTargetContextPeer_addTransfer;
#Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
#Java_sun_awt_motif_MDropTargetContextPeer_startTransfer;

```

```
#Java_sun_awt_motif_X11DragSourceContextPeer_startDrag;
#Java_sun_awt_motif_X11DragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_X11DropTargetContextPeer_sendResponse;
#Java_sun_awt_motif_X11DropTargetContextPeer_dropDone;
#Java_sun_awt_motif_X11DropTargetContextPeer_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_pSetIconImage___3B_3I_3SII;
#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_create;
#Java_sun_awt_motif_MLabelPeer_setAlignment;
#Java_sun_awt_motif_MLabelPeer_setText;
#Java_sun_awt_motif_MListPeer_addItem;
#Java_sun_awt_motif_MListPeer_create;
#Java_sun_awt_motif_MListPeer_delItems;
#Java_sun_awt_motif_MListPeer_deselect;
#Java_sun_awt_motif_MListPeer_isSelected;
#Java_sun_awt_motif_MListPeer_makeVisible;
#Java_sun_awt_motif_MListPeer_select;
#Java_sun_awt_motif_MListPeer_setMultipleSelections;
#Java_sun_awt_motif_MMenuBarPeer_create;
#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_MTextAreaPeer_setTextBackground;
#Java_sun_awt_motif_MTextFieldPeer_initIDs;
#Java_sun_awt_motif_MTextFieldPeer_pCreate;
#Java_sun_awt_motif_MTextFieldPeer_getCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionStart;
#Java_sun_awt_motif_MTextFieldPeer_getText;
#Java_sun_awt_motif_MTextFieldPeer_insertReplaceText;
```

```

#Java_sun_awt_motif_MTextFieldPeer_preDispose;
#Java_sun_awt_motif_MTextFieldPeer_pSetEditable;
#Java_sun_awt_motif_MTextFieldPeer_select;
#Java_sun_awt_motif_MTextFieldPeer_setCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_setEchoChar;
#Java_sun_awt_motif_MTextFieldPeer_setFont;
#Java_sun_awt_motif_MTextFieldPeer_setText;
Java_sun_awt_motif_MToolkit_beep;
Java_sun_awt_motif_MToolkit_getLockingKeyStateNative;
Java_sun_awt_motif_MToolkit_getMulticlickTime;
    Java_sun_awt_motif_MToolkit_getNumMouseButtons;
Java_sun_awt_motif_MToolkit_getScreenHeight;
Java_sun_awt_motif_MToolkit_getScreenResolution;
Java_sun_awt_motif_MToolkit_getScreenWidth;
Java_sun_awt_motif_MToolkit_init;
Java_sun_awt_motif_MToolkit_isDynamicLayoutSupportedNative;
Java_sun_awt_motif_MToolkit_isFrameStateSupported;
Java_sun_awt_motif_MToolkit_loadSystemColors;
Java_sun_awt_motif_MToolkit_makeColorModel;
Java_sun_awt_motif_MToolkit_run;
Java_sun_awt_motif_MToolkit_sync;
    Java_sun_awt_motif_MToolkit_isAlwaysOnTopSupported;
Java_sun_awt_motif_MWindowAttributes_initIDs;
#Java_sun_awt_motif_MWindowPeer_pDispose;
#Java_sun_awt_motif_MWindowPeer_pHide;
#Java_sun_awt_motif_MWindowPeer_pReshape;
#Java_sun_awt_motif_MWindowPeer_pSetTitle;
#Java_sun_awt_motif_MWindowPeer_pShow;
#Java_sun_awt_motif_MWindowPeer_setResizable;
#Java_sun_awt_motif_MWindowPeer_toBack;
#Java_sun_awt_motif_MWindowPeer_addTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_getState;
#Java_sun_awt_motif_MWindowPeer_pSetIMMOption;
#Java_sun_awt_motif_MWindowPeer_pSetMenuBar;
#Java_sun_awt_motif_MWindowPeer_pShowModal;
#Java_sun_awt_motif_MWindowPeer_removeTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_setSaveUnder;
#Java_sun_awt_motif_MWindowPeer_setState;
#Java_sun_awt_motif_MWindowPeer_resetTargetGC;
#Java_sun_awt_motif_MWindowPeer_registerX11DropTarget;
#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_configureStatusBarNative;
#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_Container_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_awt_Insets_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_MMenuItemPeer_pSetShortcut;
#Java_sun_awt_motif_MPopupMenuPeer_initIDs;
#Java_sun_awt_motif_MScrollbarPeer_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_IJJ;
    #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;

local:
*;
};

```

```

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 */

```

```

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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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  <title>W3C IPR SOFTWARE NOTICE</title>
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1998-05-11

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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.
ifneq "$(origin ALT_DEVTOOLS_PATH)" "undefined"
    DEVTOOLS_PATH :=$(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/$(PLATFORM)-
$(ARCH)
  _BOOTDIR2 =$(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.

# BUILD_JDK_IMPORT_PATH: location of JDK install trees to import for
# multiple platforms, e.g. windows-i586, solaris-sparc, bsd-586, etc.
ifdef 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)

# JDK_IMPORT_PATH: location of JDK install tree (this version) to import
ifdef ALT_JDK_IMPORT_PATH
  JDK_IMPORT_PATH :=$(call FullPath,$(ALT_JDK_IMPORT_PATH))
else
  JDK_IMPORT_PATH = $(BUILD_JDK_IMPORT_PATH)/$(PLATFORM)-
$(ARCH)$(_JDK_IMPORT_VARIANT)
endif
JDK_IMPORT_PATH:=$(call AltCheckValue,JDK_IMPORT_PATH)

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# questions.
#

#
# Makefile to specify compiler flags for programs and libraries
# targeted to BSD. Should not contain any rules.
#

# 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
glennrp at users.sourceforge.net
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*/

```
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 } 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 },  
* 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 } 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.  
*  
* <P> 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
     * @see GuardedObject
     * @see SecurityManager#checkPermission
     *
     */

    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.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *
 * <p>The { @code implies } method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @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.
 * <P>
 * 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.
 * <P>
 * The required { @code hashCode } behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * { @code 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
 * { @code equals }
 * method, then calling the { @code hashCode } method on each of the

```


* two Permission objects must produce the same integer result.

*

*

* @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 { @code 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 { @code 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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```

```
    Version 2, June 1991
```

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1.327 java_cup 0.11a :16.el7

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1.1

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* @(#)LogSupport.java 1.4 05/11/16

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1.329 javacsv 2.0

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1.335 javassist 3.20.0

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1.339 javax.websocket-api 1.1

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

```

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// Written by David Megginson
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/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>This class provides a default implementation of the SAX2
 * { @link org.xml.sax.Attributes Attributes } interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * <p>There are two typical uses of this class:</p>
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * <p>This class replaces the now-deprecated SAX1 { @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated { @link org.xml.sax.AttributeList
 * AttributeList } interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */
// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
// Written by David Megginson
// This class is in the Public Domain. NO WARRANTY!
# RELAX NG Schema for WSDL 1.1 HTTP Binding
#
#           Written by Kohsuke Kawaguchi
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# If you find a bug, please let me know.

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/*

* Portable JBIG image compression library

*

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*

* \$Id: jbig.c 1297 2008-08-27 19:18:37Z mgk25 \$

*

* This module implements a portable standard C encoder and decoder

* using the JBIG1 lossless bi-level image compression algorithm

* specified in International Standard ISO 11544:1993 and

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*

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1.349 jdbc-jtds 1.2.8

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1.368 jersey-hk2 2.26

1.369 jersey-json 1.19

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1.370 jersey-multipart 1.19.4

1.371 jersey-multipart 1.15

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1.372 jersey-server 1.3

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* @(#)UnixCrypt.java 0.9 96/11/25
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* jQuery JSON Plugin

* version: 1.0 (2008-04-17)

*

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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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1.388 jquery-migrate 1.1.1

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1.390 js-base64 2.5.1

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1.392 json 20090211

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1.393 json 20140107

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1.395 json-c 0.11 :4.e17_0

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1.402 jsr311-api 1.1.1

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1.405 jstl 1.1.2

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1.406 JSZip 3.2.1

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/*!

JSZip - A Javascript class for generating and reading zip files

<<http://stuartk.com/jszip>>

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```
*/  
/!*!
```

JSZip v3.2.1 - A JavaScript class for generating and reading zip files

<<http://stuartk.com/jszip>>

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```
*/
```

```
(function(f){if(typeof exports==="object"&&&typeof module!=="undefined"){module.exports=f()}else if(typeof define==="function"&&&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()}})(function(){var define,module,exports;return (function e(t,n,r){function s(o,u){if(!n[o]){if(!t[o]){var a=typeof require=="function"&&&require;if(!u&&a)return a(o,!0);if(i)return i(o,!0);var f=new Error("Cannot find module '"+o+"'");throw f.code="MODULE_NOT_FOUND",f}var l=n[o]={exports:{}};t[o][0].call(l.exports,function(e){var n=t[o][1][e];return s(n?n:e)},l,l.exports,e,t,n,r)}return n[o].exports}var i=typeof require=="function"&&&require;for(var o=0;o<r.length;o++)s(r[o]);return s})({1:[function(require,module,exports){'use strict';  
var utils = require('./utils');  
var support = require('./support');  
// private property  
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("");
};

// 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
    // (...) 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;
  }

}

return output;
};

},{"/support":30,"/utils":32}],2:[function(require,module,exports){
'use strict';

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");
      }
    });
    return worker;
  },
  /**
   * Create a worker to get the compressed content.
   * @return {GenericWorker} the worker.
   */
  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;

},{"/external":6,"./stream/Crc32Probe":25,"./stream/DataLengthProbe":26,"./stream/DataWorker":27}],3:[function(
require,module,exports){
'use strict';

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');

},{"/flate":7,"./stream/GenericWorker":28}],4:[function(require,module,exports){
'use strict';

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;
}

// Create table on load. Just 255 signed longs. Not a problem.
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);
    }
};

},{"/utils":32}],5:[function(require,module,exports){
'use strict';
exports.base64 = false;
exports.binary = false;
exports.dir = false;
exports.createFolders = true;
exports.date = null;
exports.compression = null;
exports.compressionOptions = null;
exports.comment = null;
exports.unixPermissions = null;
exports.dosPermissions = null;

},{},6:[function(require,module,exports){
/* global Promise */
'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
};

}, {"lie": 37}], 7: [function (require, module, exports) {
'use strict';
var USE_TYPEDARRAY = (typeof Uint8Array !== 'undefined') && (typeof Uint16Array !== 'undefined') &&
(typeof Uint32Array !== 'undefined');

var pako = require("pako");
var utils = 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
  // 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", {});
};

}, {"/stream/GenericWorker":28,"./utils":32,"pako":38}],8:[function(require,module,exports){

```

```

'use strict';

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.
 * @return {Number} a 32 bit integer.
 *
 * *
 * adapted from http://unix.stackexchange.com/questions/14705/the-zip-formats-external-file-attribute :
 *
 * *
 * TTTTsstrwxrwxrwx0000000000ADVSHR
 * ^^^^_____ file type, see zipinfo.c (UNIX_*)
 *   ^^^_____ setuid, setgid, sticky
 *   ^^^^^^^^^^_____ permissions
 *     ^^^^^^^^^^_____ not used ?
 *       ^^^^^^ DOS attribute bits : Archive, Directory, Volume label, System file, Hidden, Read only
 *
 */
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;
};

/**
 * Generate the DOS part of the external file attributes.
 * @param {Object} dosPermissions the dos permissions or null.
 * @param {Boolean} isDir true if the entry is a directory, false otherwise.
 * @return {Number} a 32 bit integer.
 *
 * Bit 0   Read-Only
 * Bit 1   Hidden
 * Bit 2   System
 * Bit 3   Volume Label
 * Bit 4   Directory
 * Bit 5   Archive
 */
var generateDosExternalFileAttr = function (dosPermissions, isDir) {

    // the dir flag is already set for compatibility
    return (dosPermissions || 0) & 0x3F;
};

/**
 * Generate the various parts used in the construction of the final zip file.
 * @param {Object} streamInfo the hash with information about the compressed file.
 * @param {Boolean} streamedContent is the content streamed ?
 * @param {Boolean} streamingEnded is the stream finished ?
 * @param {number} offset the current offset from the start of the zip file.
 * @param {String} platform let's pretend we are this platform (change platform dependents fields)
 * @param {Function} encodeFileName the function to encode the file name / comment.
 * @return {Object} the zip parts.
 */
var generateZipParts = function(streamInfo, streamedContent, streamingEnded, offset, platform, encodeFileName) {
    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();
    return true;
  }
};

/**
 * @see GenericWorker.error
 */
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;

},{"/crc32":4,"/signature":23,"/stream/GenericWorker":28,"/utf8":31,"/utils":32}],9:[function(require,module,
exports){
'use strict';

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.
 */
exports.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);
};

JSZip.external = require("./external");
module.exports = JSZip;

},{"./defaults":5,"./external":6,"./load":11,"./object":15,"./support":30}],11:[function(require,module,exports){
'use strict';
var utils = require('./utils');
var external = require("./external");
var utf8 = require('./utf8');
var utils = require('./utils');
var ZipEntries = require('./zipEntries');
var Crc32Probe = require('./stream/Crc32Probe');
var nodejsUtils = require("./nodejsUtils");

```



```

/**
 * 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();
  });
}

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)) {
    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;
  });
};

},{"/external":6,"/nodejsUtils":14,"/stream/Crc32Probe":25,"/utf8":31,"/utils":32,"/zipEntries":33}],12:[function
(require,module,exports){
"use strict";

var utils = require('../utils');
var GenericWorker = require('../stream/GenericWorker');

/**
 * A worker that use a nodejs stream as source.
 * @constructor
 * @param {String} filename the name of the file entry for this stream.
 * @param {Readable} stream the nodejs 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 nodejs 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
      }
    });
  })
  .on("error", function (e) {
    if(self.isPaused) {
      this.generatedError = e;
    } else {
      self.error(e);
    }
  })
  .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;

},{"/stream/GenericWorker":28,"./utils":32}],13:[function(require,module,exports){
'use strict';

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) {
      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;

},{"/utils":32,"readable-stream":16}],14:[function(require,module,exports){
'use strict';

module.exports = {
  /**
   * True if this is running in Nodejs, will be undefined in a browser.
   * In a browser, browserify won't include this file and the whole module
   * will be resolved an empty object.
   */
  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";
    }
};

},{}],15:[function(require,module,exports){
'use strict';
var utf8 = require('./utf8');
var utils = require('./utils');
var GenericWorker = require('./stream/GenericWorker');
var StreamHelper = require('./stream/StreamHelper');
var defaults = require('./defaults');
var CompressedObject = require('./compressedObject');
var ZipObject = require('./zipObject');
var generate = require("./generate");
var nodejsUtils = require("./nodejsUtils");
var NodejsStreamInputAdapter = require("./nodejs/NodejsStreamInputAdapter");

/**
 * Add a file in the current folder.
 * @private
 * @param {string} name the name of the file
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data of the file
 * @param {Object} originalOptions the options of the file
 * @return {Object} the new file.
 */
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);
}

// UNX_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) {
  o.base64 = false;
  o.binary = true;
  data = "";
  o.compression = "STORE";
  dataType = "string";
}

/*
 * Convert content to fit.
 */

var zipObjectContent = null;
if (data instanceof CompressedObject || data instanceof 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) : "";
};

/**
 * Returns the path with a slash at the end.
 * @private
 * @param {String} path the path to check.
 * @return {String} the path with a trailing slash.
 */
var forceTrailingSlash = function(path) {
  // Check the name ends with a /
  if (path.slice(-1) !== '/') {
    path += "/"; // IE doesn't like substr(-1)
  }
  return path;
};

```



```

/**
 * Add a (sub) folder in the current folder.
 * @private
 * @param {string} name the folder's name
 * @param {boolean=} [createFolders] If true, automatically create sub
 * folders. Defaults to false.
 * @return {Object} the new folder.
 */
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];
};

/**
 * Cross-window, cross-Node-context regular expression detection
 * @param {Object} object Anything
 * @return {Boolean} true if the object is a regular expression,
 * false otherwise
 */
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
search fn...
    }
  }
},

/**
* 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;
    }

    if (isRegExp(arg)) {
        return this.filter(function(relativePath, file) {
            return file.dir && arg.test(relativePath);
        });
    }

    // 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;

}, {"/compressedObject":2, "/defaults":5, "/generate":9, "/nodejs/NodejsStreamInputAdapter":12, "/nodejsUtils":14,
"/stream/GenericWorker":28, "/stream/StreamHelper":29, "/utf8":31, "/utils":32, "/zipObject":35}], 16:[function(require,module,exports){
    /*
     * 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");

}, {"stream":undefined}], 17:[function(require,module,exports){
    '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;

},{"/utils":32,"/DataReader":18}],18:[function(require,module,exports){

```

```

'use strict';
var utils = require('../utils');

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) + ").");
    }
  },
  /**
   * 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);

/**
* @see DataReader.readData
*/
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;

},{"/utils":32,"./Uint8ArrayReader":21}],20:[function(require,module,exports){
'use strict';
var DataReader = require('./DataReader');
var utils = require('./utils');

```

```

function StringReader(data) {
  DataReader.call(this, data);
}
utils.inherits(StringReader, DataReader);
/**
 * @see DataReader.byteAt
 */
StringReader.prototype.byteAt = function(i) {
  return this.data.charCodeAtAt(this.zero + i);
};
/**
 * @see DataReader.lastIndexOfSignature
 */
StringReader.prototype.lastIndexOfSignature = function(sig) {
  return this.data.lastIndexOf(sig) - this.zero;
};
/**
 * @see DataReader.readAndCheckSignature
 */
StringReader.prototype.readAndCheckSignature = function (sig) {
  var data = this.readData(4);
  return sig === data;
};
/**
 * @see DataReader.readData
 */
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") {
        return new NodeBufferReader(data);
    }
    if (support.uint8array) {
        return new Uint8ArrayReader(utils.transformTo("uint8array", data));
    }
    return new ArrayReader(utils.transformTo("array", data));
};

},{"/support":30,"./utils":32,"./ArrayReader":17,"./NodeBufferReader":19,"./StringReader":20,"./Uint8ArrayReader":21}],23:[function(require,module,exports){
'use strict';
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";

},{}],24:[function(require,module,exports){
'use strict';

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;

},{"./utils":32,"./GenericWorker":28}],25:[function(require,module,exports){
'use strict';

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;

},{"/../crc32":4,"../utils":32,"../GenericWorker":28}],26:[function(require,module,exports){
'use strict';

var utils = require('../utils');
var GenericWorker = require('../GenericWorker');

/**
 * 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) {
  if(chunk) {
    var length = this.streamInfo[this.propName] || 0;
    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);

/**
 * @see GenericWorker.cleanUp
 */
DataWorker.prototype.cleanUp = function () {
  GenericWorker.prototype.cleanUp.call(this);
  this.data = null;
};

/**
 * @see GenericWorker.resume
 */
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;
};

/**
 * Trigger a tick a schedule an other call to this function.
 */
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;
    }
};

/**
 * Read and push a chunk.
 */
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;
```

```
},{"/utils":32,"/GenericWorker":28}],28:[function(require,module,exports){
'use strict';
```

```
/**
```

```

* A worker that does nothing but passing chunks to the next one. This is like
* a nodejs stream but with some differences. On the good side :
* - it works on IE 6-9 without any issue / polyfill
* - it weights less than the full dependencies bundled with browserify
* - it forwards errors (no need to declare an error handler EVERYWHERE)
*

```

```

* A chunk is an object with 2 attributes : `meta` and `data`. The former is an
* object containing anything (`percent` for example), see each worker for more
* details. The latter is the real data (String, Uint8Array, etc).
*

```

```
* @constructor
```

```
* @param {String} name the name of the stream (mainly used for debugging purposes)
```

```
*/
```

```
function GenericWorker(name) {
```

```
    // the name of the worker
```

```
    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 the stream so it doesn't send events anymore.
 * @return {Boolean} true if this call paused the worker, false otherwise.
 */
pause : function () {
  if(this.isPaused || this.isFinished) {
    return false;
  }
  this.isPaused = true;

  if(this.previous) {
    this.previous.pause();
  }
  return true;
}

```

```

    },
    /**
     * Resume a paused stream.
     * @return {Boolean} true if this call resumed the worker, false otherwise.
     */
    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 any remaining bytes as the stream is ending.
     */
    flush : function () {},
    /**
     * Process a chunk. This is usually the method overridden.
     * @param {Object} chunk the chunk to process.
     */
    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;

},{}],29:[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
 * @throws Error if the asked type is unsupported
 */
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(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":
    case "arraybuffer":
      internalType = "uint8array";
      break;
    case "base64":
      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;

},{"../base64":1,"../external":6,"../nodejs/NodejsStreamOutputAdapter":13,"../support":30,"../utils":32,"./ConvertWorker":24,"./GenericWorker":28}],30:[function(require,module,exports){
'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"
    }).size === 0;
  }
  catch (e) {
    try {
      var Builder = self.BlobBuilder || self.WebKitBlobBuilder || self.MozBlobBuilder || self.MSBlobBuilder;
      var builder = new Builder();
      builder.append(buffer);
      exports.blob = builder.getBlob('application/zip').size === 0;
    }
    catch (e) {
      exports.blob = false;
    }
  }
}
}
}

```

```

try {
  exports.nodestream = !!require('readable-stream').Readable;
} catch(e) {
  exports.nodestream = false;
}

},{"readable-stream":16}],31:[function(require,module,exports){
'use strict';

var utils = require('./utils');
var support = require('./support');
var nodejsUtils = require('./nodejsUtils');
var GenericWorker = require('./stream/GenericWorker');

/**
 * The following functions come from pako, from pako/lib/utils/strings
 * released under the MIT license, see pako https://github.com/nodeca/pako/
 */

// 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++) {
  _utf8len[i] = (i >= 252 ? 6 : i >= 248 ? 5 : i >= 240 ? 4 : i >= 224 ? 3 : i >= 192 ? 2 : 1);
}
_utf8len[254]=_utf8len[255]=1; // Invalid sequence start

// 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.charCodeAtAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {
        c2 = str.charCodeAtAt(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;
};

// 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 vuffer 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; i) {
    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 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);
        } 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 encode string chunks into utf8 encoded binary chunks.
 * @constructor
 */
function Utf8EncodeWorker() {
  GenericWorker.call(this, "utf-8 encode");
}
utils.inherits(Utf8EncodeWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
Utf8EncodeWorker.prototype.processChunk = function (chunk) {
  this.push({
    data : exports.utf8encode(chunk.data),
    meta : chunk.meta
  });
};
exports.Utf8EncodeWorker = Utf8EncodeWorker;

},{"/nodejsUtils":14,"/stream/GenericWorker":28,"/support":30,"/utils":32}],32:[function(require,module,exports)
){
'use strict';

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.
 */
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 {String|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]").
 *
 * 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.
 *
 * @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 = self.BlobBuilder || self.WebKitBlobBuilder || self.MozBlobBuilder || self.MSBlobBuilder;
    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" 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.
* @param {Boolean} isBase64 true if the string content is encoded with base64.
* @return {Promise} a promise in a format usable by JSZip.
*/
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) {
                // 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.
   */
  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);

```

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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);

    this.zip64ExtensibleData = {};
    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({
      zip64: this.zip64
    }, 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.
    see https://developer.mozilla.org/en-US/docs/JavaScript/Reference/Operators/Bitwise\_Operators
    and http://www.ecma-international.org/publications/files/ECMA-ST/ECMA-262.pdf section 8.5
    */

    // 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);
    this.readBlockZip64EndOfCentral();
}

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.");
    }
    },
    prepareReader: function(data) {
        this.reader = readerFor(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.readEndOfCentral();
        this.readCentralDir();
        this.readLocalFiles();
    }
    };
    // }}} end of ZipEntries
    module.exports = ZipEntries;

}, {"/reader/readerFor":22, "/signature":23, "/support":30, "/utf8":31, "/utils":32, "/zipEntry":34}], 34: [function(require, module, exports) {
    'use strict';
    var readerFor = require('./reader/readerFor');
    var utils = require('./utils');
    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.
     * @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 \
// 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
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);
        }
    }
},
/**
 * Find the unicode path declared in the extra field, if any.
 * @return {String} the unicode path, null otherwise.
 */
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;
},

/**
 * Find the unicode comment declared in the extra field, if any.
 * @return {String} the unicode comment, null otherwise.
 */
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;

},{"/compressedObject":2,"/compressions":3,"/crc32":4,"/reader/readerFor":22,"/support":30,"/utf8":31,"/utils":
32}],35:[function(require,module,exports){
'use strict';

var StreamHelper = require('./stream/StreamHelper');
var DataWorker = require('./stream/DataWorker');
var utf8 = require('./utf8');
var CompressedObject = require('./compressedObject');
var GenericWorker = require('./stream/GenericWorker');

```

```

/**
 * 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.
 * @private
 * @param {Object} compression the compression object to use.
 * @param {Object} compressionOptions the options to use when compressing.
 * @return Worker the worker.
 */
_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,"/utils/uint8Array":31}],36:[function(require,module,exports){
(function (global){
'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')) {

  // 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 && !draining) {
    scheduleDrain();
  }
}

}).call(this,typeof global !== "undefined" ? global : typeof self !== "undefined" ? self : typeof window !==
"undefined" ? window : {})
},{},37:[function(require,module,exports){
'use strict';
var immediate = require('immediate');

/* 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;
  }
  var promise = new this.constructor(INTERNAL);
  if (this.state !== PENDING) {
    var resolver = this.state === FULFILLED ? onFulfilled : onRejected;
    unwrap(promise, resolver, this.outcome);
  } 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);
  }
  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) {
      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);
      }
    });
  }
}

}, {"immediate":36}],38:[function(require,module,exports){
// Top level file is just a mixin of submodules & constants
'use strict';

```

```

var assign = require('./lib/utlils/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;

},{"/lib/deflate":39,"/lib/inflate":40,"/lib/utlils/common":41,"/lib/zlib/constants":44}],39:[function(require,module,
exports){
'use strict';

var zlib_deflate = require('./zlib/deflate');
var utlils = require('./utlils/common');
var strings = require('./utlils/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;
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
this.chunks = []; // 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` means 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;
  }
  if (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;

}, {"/utils/common":41, "/utils/strings":42, "/zlib/deflate":46, "/zlib/messages":51, "/zlib/zstream":53}], 40: [function(
require, module, exports) {
'use strict';

var zlib_inflate = require('./zlib/inflate');
var utils      = 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 inflater 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 = []; // chunks of compressed data

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();

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
  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_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_BUF_ERROR && allowBufError === true) {
    status = c.Z_OK;
    allowBufError = false;
}

if (status !== c.Z_STREAM_END && status !== c.Z_OK) {
    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;
}

// 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);
    }
  }
  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);
}

/**
 * ungzipped(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;

},{"/utils/common":41,"/utils/strings":42,"/zlib/constants":44,"/zlib/gzheader":47,"/zlib/inflate":49,"/zlib/messages":51,"/zlib/zstream":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);

},{ },42:[function(require,module,exports){
// 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[q] = (q >= 252 ? 6 : q >= 248 ? 5 : q >= 240 ? 4 : q >= 224 ? 3 : q >= 192 ? 2 : 1);
}
_utf8len[254] = _utf8len[255] = 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.charCodeAtAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
      c2 = str.charCodeAtAt(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.charCodeAtAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
      c2 = str.charCodeAtAt(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 vuffer 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;
```

```
}, {}, 44: [function (require, module, exports) {  
  'use strict';
```

```
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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
};

},{},45:[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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// 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;
}

// Create table on load. Just 255 signed longs. Not a problem.
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;

},{}],46:[function(require,module,exports){
'use strict';

// (C) 1995-2013 Jean-loup Gailly and Mark Adler
// (C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin
//
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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 flush_pending()).
*/
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;
}

/* =====

```

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* 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*/
} while (_win[++scan] === _win[++match] && _win[++scan] === _win[++match] &&
        _win[++scan] === _win[++match] && _win[++scan] === _win[++match] &&
        _win[++scan] === _win[++match] && _win[++scan] === _win[++match] &&
        _win[++scan] === _win[++match] && _win[++scan] === _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;
}

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    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;

        // 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--;
        //    }
        // }
    } while (more < 0);
}

```

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/* 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.
         */
    } while (--n);

    more += _w_size;
}
if (s.strm.avail_in === 0) {
    break;
}

/* If there was no sliding:
 * strstart <= WSIZE+MAX_DIST-1 && lookahead <= MIN_LOOKAHEAD - 1 &&
 * more == window_size - lookahead - strstart
 * => more >= window_size - (MIN_LOOKAHEAD-1 + WSIZE + MAX_DIST-1)
 * => more >= window_size - 2*WSIZE + 2
 * In the BIG_MEM or MMAP case (not yet supported),

```

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* window_size == input_size + MIN_LOOKAHEAD &&
* strstart + s->lookahead <= input_size => more >= MIN_LOOKAHEAD.
* Otherwise, window_size == 2*WSIZE so more >= 2.
* If there was sliding, more >= WSIZE. So in all cases, more >= 2.
*/
//Assert(more >= 2, "more < 2");
n = read_buf(s.strm, s.window, s.strstart + s.lookahead, more);
s.lookahead += n;

/* Initialize the hash value now that we have some input: */
if (s.lookahead + s.insert >= MIN_MATCH) {
    str = s.strstart - s.insert;
    s.ins_h = s.window[str];

    /* UPDATE_HASH(s, s->ins_h, s->window[str + 1]); */
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + 1]) & s.hash_mask;
    /*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.

```

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*/
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.
 * 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 */
    }
}

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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;

#ifdef 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
        * 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)*/) {
    /* 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;
  }
  /***/
}

} else if (s.match_available) {
  /* If there was no match at the previous position, output a
  * single literal. If there was a match but the current match
  * is longer, truncate the previous match to a single literal.
  */
  //Tracevv((stderr, "%c", 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]);

  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, "%c", 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] && 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;
}
/****/
}
return BS_BLOCK_DONE;
}

/* =====
* For Z_HUFFMAN_ONLY, do not look for matches. Do not maintain a hash table.
* (It will be regenerated if this run of deflate switches away from Huffman.)
*/
function deflate_huff(s, flush) {
var bflush; /* set if current block must be flushed */

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]);
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;
    }
    /**/
}
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 = [
    /* good lazy nice chain */
    new Config(0, 0, 0, 0, deflate_stored), /* 0 store only */
    new Config(4, 4, 8, 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, 128, 256, deflate_slow), /* 7 */
    new Config(32, 128, 258, 1024, deflate_slow), /* 8 */
    new Config(32, 258, 258, 4096, deflate_slow) /* 9 max compression */
];

/* =====
* Initialize the "longest match" routines for a new zlib stream
*/
function lm_init(s) {
    s.window_size = 2 * s.w_size;

    /*** 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 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.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;
    putShortMSB(s, header);

    /* Save the Adler32 of the preset dictionary: */
    if (s.strstart !== 0) {
        putShortMSB(s, strm.adler >>> 16);
        putShortMSB(s, strm.adler & 0xffff);
    }
    strm.adler = 1; // Adler32(0L, Z_NULL, 0);
}
}

#ifdef 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;
        }
      }
      // 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);
    }
    if (s.pending + 2 <= s.pending_buf_size) {
        put_byte(s, strm.adler & 0xff);
        put_byte(s, (strm.adler >> 8) & 0xff);
        strm.adler = 0; //crc32(0L, Z_NULL, 0);
        s.status = BUSY_STATE;
    }
}
else {
    s.status = BUSY_STATE;
}
}
//endif

/* 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;
    }

    /* 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(s); /**/ /* forget history */
zero(s.head); // Fill with NIL (= 0);

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);
  }

  strm.state = null;

  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;
*/

},{"/utils/common":41,"/adler32":43,"/crc32":45,"/messages":51,"/trees":52}],47:[function(require,module,exports){
'use strict';

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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" :
            //    "inflate:   literal 0x%02x\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);
#ifdef INFLATE_STRICT
        if (dist > dmax) {
            strm.msg = 'invalid distance too far back';
            state.mode = BAD;
            break top;
        }
#endif
        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_TOOFAR_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 {
  from = _out - dist; /* copy direct from output */
  do { /* minimum length is three */
    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';

```

```

// (C) 1995-2013 Jean-loup Gailly and Mark Adler
// (C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin
//
// This software is provided 'as-is', without any express or implied
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// appreciated but is not required.
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// misrepresented as being the original software.
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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('./infrees');

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_BUF_ERROR = -5;
//var Z_VERSION_ERROR = -6;

/* The deflate compression method */
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; /* 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 {}
this.head = null; /* where to save gzip header information */

/* sliding window */
this.wbits = 0;    /* log base 2 of requested window size */
this.wsize = 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 utils.Buf16(320); /* temporary storage for code lengths */
this.work = new utils.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 utils.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 inffixed.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;
        }
        else {
            state.wnext += dist;
            if (state.wnext === state.wsize) { state.wnext = 0; }
            if (state.whave < state.wsize) { state.whave += dist; }
        }
    }
    return 0;
}

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)
//var last;      /* 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();
    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.comm_max*/)) {
            state.head.comment += 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.comment = null;
}
state.mode = HCRC;
/* falls through */
case HCRC:
if (state.flags & 0x0200) {
    //=== NEEDBITS(16); */
    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;
    }
}

```

```

    }
    //=== INITBITS();
    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:
    //=== NEEDBITS(32); */
    while (bits < 32) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===//
    strm.adler = state.check = zswap32(hold);
    //=== INITBITS();
    hold = 0;
    bits = 0;
    //===//
    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;
    //---//
    //#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 infrees.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'\n" :
    //    "inflate:   literal 0x%02x\n", 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 /* == Z_NULL */ || !strm.state /* == Z_NULL */) { 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;
exports.inflateReset2 = inflateReset2;
exports.inflateResetKeep = inflateResetKeep;
exports.inflateInit = inflateInit;
exports.inflateInit2 = inflateInit2;
exports.inflate = inflate;
exports.inflateEnd = inflateEnd;
exports.inflateGetHeader = inflateGetHeader;
exports.inflateSetDictionary = inflateSetDictionary;
exports.inflateInfo = 'pako inflate (from Nodeca project)';

/* Not implemented
exports.inflateCopy = inflateCopy;
exports.inflateGetDictionary = inflateGetDictionary;
exports.inflateMark = inflateMark;
exports.inflatePrime = inflatePrime;
exports.inflateSync = inflateSync;
exports.inflateSyncPoint = inflateSyncPoint;
exports.inflateUndermine = inflateUndermine;
*/

},{"/utils/common":41,"/adler32":43,"/crc32":45,"/inffast":48,"/infrees":50}],50:[function(require,module,exports){
'use strict';

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var utils = require('./utils/common');

var MAXBITS = 15;
var ENOUGH_LENS = 852;

```

```

var ENOUGH_DISTS = 592;
//var ENOUGH = (ENOUGH_LENS+ENOUGH_DISTS);

var CODES = 0;
var LENS = 1;
var DISTS = 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, 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, 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 */
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 for more information.

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 === DISTIS && used > ENOUGH_DISTIS)) {
    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;
};

}, { './utils/common': 41 }, 51: [function(require, module, exports) {
'use strict';

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```

```
module.exports = {
  2: 'need dictionary', /* Z_NEED_DICT 2 */
  1: 'stream end', /* Z_STREAM_END 1 */
  0: '', /* Z_OK 0 */
  '-1': 'file error', /* Z_ERRNO (-1) */
  '-2': 'stream error', /* Z_STREAM_ERROR (-2) */
  '-3': 'data error', /* Z_DATA_ERROR (-3) */
  '-4': 'insufficient memory', /* Z_MEM_ERROR (-4) */
  '-5': 'buffer error', /* Z_BUF_ERROR (-5) */
  '-6': 'incompatible version' /* Z_VERSION_ERROR (-6) */
};
```

```
},{}],52:[function(require,module,exports){
'use strict';
```

```
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```

```
var utils = require('./utils/common');
```

```
/* Public constants =====*/
/* =====*/
```

```
//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;

/*=====*/

function zero(buf) { var len = buf.length; while (--len >= 0) { buf[len] = 0; } }

// From zutil.h

var STORED_BLOCK = 0;
var STATIC_TREES = 1;
var DYN_TREES   = 2;
/* The three kinds of block type */

var MIN_MATCH = 3;
var MAX_MATCH = 258;
/* The minimum and maximum match lengths */

// From deflate.h
/*=====
* Internal compression state.
*/

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 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 */
[0,0,0,0,0,0,0,1,1,1,1,2,2,2,2,3,3,3,3,4,4,4,4,5,5,5,0];

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_bbits = /* extra bits for each bit length code */
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2,3,7];

var bl_order =
[16,17,18,0,8,7,9,6,10,5,11,4,12,3,13,2,14,1,15];
/* eslint-enable comma-spacing,array-bracket-spacing */

/* 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 insdead 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_SIZE; 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, "\nbit length overflow\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;
        }
        n--;
    }
}

/* =====
 * 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)
//  ct_data *tree;      /* the tree to decorate */
//  int max_code;      /* largest code with non zero frequency */
//  ushf *bl_count;    /* number of codes at each bit length */
{
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, "\ngen_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 1 %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");
/* Note that the length 255 (match length 258) can be represented
 * in two different ways: code 284 + 5 bits or code 285, so we
 * overwrite length_code[255] to use the best encoding:
 */
_length_code[length - 1] = code;

/* Initialize the mapping dist (0..32K) -> dist code (0..29) */
dist = 0;
for (code = 0; code < 16; code++) {
    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
* 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];
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;
    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;
    }
}
}

/* =====
* 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 pzip 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, "\nbl 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, "\nbl code %2d ", bl_order[rank]));
    send_bits(s, s.bl_tree[bl_order[rank] * 2 + 1]/*Len*/, 3);
}
//Tracev((stderr, "\nbl tree: sent %ld", s->bits_sent));

send_tree(s, s.dyn_ltree, lcodes - 1); /* literal tree */
//Tracev((stderr, "\nlit tree: sent %ld", s->bits_sent));

send_tree(s, s.dyn_dtree, dcodes - 1); /* distance tree */
//Tracev((stderr, "\ndist 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 11110011111111111100000001111111
*/
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_bindex = 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, "\nlit data: dyn %ld, stat %ld", s->opt_len,
//      s->static_len));

build_tree(s, s.d_desc);
// Tracev((stderr, "\ndist 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, "\nopt %lu(%lu) stat %lu(%lu) stored %lu lit %u ",
//      opt_lenb, s->opt_len, static_lenb, 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 <= 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, "\ncomprlen %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, "\nlast_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;

}, { './utils/common': 41 }, 53: [function(require, module, exports) {
'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);
  };
};
```

```
},{}}),{},{[10])(10)
});
/*!
```

JSZip v3.2.1 - A JavaScript class for generating and reading zip files
<<http://stuartk.com/jszip>>

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*/

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1.408 jtlds 1.3.1

1.409 Jtlds 1.2.2

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1.410 jul-to-slf4j 1.7.13

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1.412 JUnit 4.8.2

1.412.1 Available under license :

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1.413 jxmpp-core 0.6.3

1.414 jxmpp-jid 0.6.3

1.415 jxmpp-util-cache 0.6.3

1.416 kahadb 5.5.1

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```
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// Transitive dependencies of this project determined from the  
// maven pom organized by organization.  
// -----
```

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```
wvvnfff<<0000`|0810818181v81118181881~<ff<l80f`|f0f`|f81f`|f11f`|f0<<<f<<<f<<f<<1fffflv`0||0||81||v||11||1881~`0|0|81||l|fff<<`|fff|`|0x|v0`x|v0xx|vvx|v1lx|v818x|v~~||180||0||81||11||08<08<<f8<118<x0x~|vffff`0||0||81||v||11||~~`0v0v0xvv0v|`xllx`v|
rJ
```

```
~~vvvvvn8||8`j
```

```
""""UUUUUD0`0`00`0`>>><~~~0`0<~~~<$ff$6f`0|nlll0xx000lllllll0|x00f818vv00`0`0`00`f<<f000000`000`||0p000x8`x8x<l8x`x000xxxx|p00000000`0`0`00`x00|x0xff|ff<f<lffffbhxhbbhxbh`<ff>x00000xxflxlf``bf8118ff|`xxff|lfxpx0000xxx0181x00x0fx````x`0xx8100x|v``|ffxx|vxx81``v|`lvff0p000xx`flxlp00000xxxxff`v|vf`|x0|004vx01181|0d0000000000000vxx0xlllll|`lllo`|llllllllllllll`ollllllllo`olllllllllllllllllllllllllllllllllll000xx00xx081d`8d`d8x000xx`8x810811818x|x|<ll>~3ff3||pp0000p0`p0p|Of{;x0d``8118|f3f~``~x00x0`f<`0x0xxxvxxxxx>x<ff<x`0bxbbxb81bxbllbxb`0x000x0x000xxx000x000xllfv`0xx0xxxxxxvxxxxx1881>1l`0x0xxxx0x0x`|f|`|0x|v0x|v81x|vvx|v1lx|v818x|v~~~xxp`0xxxxxxxxxx`0p00x0p00x pp00xp00xxp|xv`0xx0xx0xxxvxxxx0000`0v0vxxvv0|`xllx`|
```

```
#
# PC Screen (console) Fonts - psf1 header
#
0  lshort      0x0436      psf screen font data
>2  byte        0          256 characters, no index
>2  byte        1          512 characters, no index
>2 byte 2 256 characters, Unicode index
>2 byte 3 512 characters, Unicode index
>2 byte 4 256 characters, Unicode level 2 index
>2 byte 5 512 characters, Unicode level 2 index
>3 byte x 8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0  llong 0x864ab572 psf2 screen font data
>12 llong&1 1 with Unicode index
>16 llong x \b, %d glyphs
>28 llong x \b, %dx
>24 llong x \b%d
```

1.418 kernel 3.10.0 :957.21.3.el7.centos.plus

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacom.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 patching the cable card decoder driver

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for his LIRC infrared handler

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for many bugfixes

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for the nxt2004 frontend driver

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

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

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```

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</sect1>
```

```
</appendix>
```

```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
{
  return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
```

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```

```
  Version 2, June 1991
```

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
```

```

* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
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1.419 kexec-tools 2.0.14 :17.el7

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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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```

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Ty Coon, President of Vice
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1.420 keyutils 1.5.8 :3.el7

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1.421 keyutils_GPLv2 1.5.8 :3.e17

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```
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```

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```

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```

1.422 kmod 20 :15.el7

1.422.1 Available under license :

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Version 2.1, February 1999

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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

lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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      <a href="mitK5license.html" title="MIT Kerberos License information"
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<div class="documentwrapper">
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    </div>
  </div>
</div>
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<h2>On this page</h2>
<ul>
<li><a class="reference internal" href="#">Copyright</a></li>
</ul>

<br/>
<h2>Table of contents</h2>
<ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
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<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
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<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
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    </div>
  </div>
</div>

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    <div class="document">

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

class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">g_utils</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">g_verify</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">gssd_pname_to_uid</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">mglueP</span><span class="o"/></span><span class="n">h</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">oid_ops</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">spnego</span><span class="o"/></span><span
class="n">gssapiP_spnego</span><span class="o"/></span><span class="n">h</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">spnego</span><span class="o"/></span><span
class="n">spnego_mech</span><span class="o"/></span><span class="n">c</span>
</pre></div>
</div>

```

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

```

<div class="highlight-python"><div class="highlight"><pre><span class="n">include</span><span
class="o"/></span><span class="n">iprop_hdr</span><span class="o"/></span><span class="n">h</span>
<span class="n">kadmin</span><span class="o"/></span><span class="n">server</span><span
class="o"/></span><span class="n">ipropd_svc</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">iprop</span><span class="o"/></span><span class="n">x</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">kdb_convert</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">kdb_log</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">kdb_log</span><span class="o"/></span><span class="n">h</span>
<span class="n">lib</span><span class="o"/></span><span class="n">krb5</span><span class="o"/></span><span
class="o"/></span><span class="n">error_tables</span><span class="o"/></span><span
class="n">kdb5_err</span><span class="o"/></span><span class="n">et</span>
<span class="n">slave</span><span class="o"/></span><span class="n">kpropd_rpc</span><span
class="o"/></span><span class="n">c</span>
<span class="n">slave</span><span class="o"/></span><span class="n">kproplog</span><span
class="o"/></span><span class="n">c</span>
</pre></div>
</div>

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- Kerberos V5 concepts

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```
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<h4>Search</h4>
```

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<form class="search" action="search.html" method="get">
```

```
  <input type="text" name="q" size="18" />
```

```
  <input type="submit" value="Go" />
```

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  <input type="hidden" name="check_keywords" value="yes" />
```

```
  <input type="hidden" name="area" value="default" />
```

```
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```

```
  </div>
```

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

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</div>
```

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

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

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    <div class="right" ><i>Release: 1.15.1</i><br />
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    &copy; <a href="copyright.html">Copyright</a> 1985-2017, MIT.
```

```
    </div>
```

```
    <div class="left">
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```
      <a href="index.html" title="Full Table of Contents"
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```
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```
        >index</a> |
```

```
      <a href="search.html" title="Enter search criteria"
```

```
        >Search</a> |
```

```
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
```

```
    </div>
```

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  </div>
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</div>
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```
</body>
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```
</html>
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c
- lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

.. parsed-literal::

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.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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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
```

lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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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

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

```



```

return is_license

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

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

 # Scan for license statements.
 in_comment = False
 code_seen = False
 nonlicense_seen = False
 for line in lines[ln:]:
 # Strip out whitespace and comments contained within a line.
 if not in_comment:
 line = re.sub(r'\s*.*?*/', '', line)
 line = line.strip()

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

 ln += 1

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

```

```
lines = f.readlines()
f.close()
check_file(lines, fname)
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* *
* Information and Software Systems Research *
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* Florham Park NJ *
*
* *
* Glenn Fowler <gsf@research.att.com> *
*
* *
*****/
#pragma prototyped

/*
* bsd
*/

#define bsd_description \
"The BSD checksum."
#define bsd_options 0
#define bsd_match "bsd|ucb"
#define bsd_open long_open
#define bsd_init long_init
#define bsd_done short_done
#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;
}

```

## 1.425 Idns 1.6.16 :10.e17

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# 1.427 less 458 :9.e17

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## 1.428 libaio 0.3.109 :13.e17

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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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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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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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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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```
@iftex
@unnumberedsec TERMS AND CONDITIONS
@end iftex
@ifinfo
@center TERMS AND CONDITIONS
@end ifinfo
```

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@enumerate 0
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```

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@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@unnumberedsec 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 state the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@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

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

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

@smallexample

@var{program} Copyright (C) @var{year} @var{name of author}

This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.

This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.

@end smallexample

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

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@end enumerate

@node Library Copying

@appendix GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@appendixsubsec Preamble

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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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be combined with the library in order to run.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@ifinfo

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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@appendixsubsec How to Apply These Terms to Your New Libraries

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@smallexample

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@end smallexample

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:

```
@smallexample
```

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
'Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
@end smallexample
```

That's all there is to it!

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Version 2.1, February 1999

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# 1.431 libasyns 0.8 :7.el7

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## 1.432 libatomic 7.6.10-4

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## 1.435 libcgroup 0.41 :13.el7

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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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.

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

That's all there is to it!

# 1.436 libcroco 0.6.11 :1.e17

## 1.436.1 Available under license :

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Version 2, June 1991

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675 Mass Ave, Cambridge, MA 02139, USA

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treats it as such.

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

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

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

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

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necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

## 1.437 libcurl 7.29.0 :51.e17

### 1.437.1 Available under license :

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/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgg-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

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](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/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

#### 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.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:

<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:

<http://www.mozilla.org/MPL/>

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## 1.438 libdaemon 0.14 :7.e17

### 1.438.1 Available under license :

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Version 2.1, February 1999

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## 1.439 libdb 5.3.21 :20.e17

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## 1.442 libedit 3.0 :12.20121213cvs.el7

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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.

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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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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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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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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) 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

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-----	-----
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/\* 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)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 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
@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).

```

@c man end  
@c man begin COPYRIGHT  
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@uref{http://fsf.org/}

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

@c man end

@end ignore

@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnohtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

@end ifnohtml

@html

<h1 align="center">Installing GCC: GNU Free Documentation License</h1>

@end html

@ifnohtml

@unnumbered GNU Free Documentation License

@end ifnohtml

@end ifset

@c man begin DESCRIPTION

@ifclear gfdlhtml

@node GNU Free Documentation License

@unnumbered GNU Free Documentation License

@end ifclear

@cindex FDL, GNU Free Documentation License

@center Version 1.3, 3 November 2008

@display

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@end display

@enumerate 0

@item

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}  
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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@smallexample

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.

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@end smallexample

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@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 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.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 Dossier provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) 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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```
#!/usr/bin/python
```

```
#
```

```
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```

```
#
```

```
This script 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 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 + '\n')
 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',
 'ltsugar.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 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.
 '([Cc]opyright'
 '|[Cc]opyright\s+\([Cc]\)'
 '|[Cc]opyright\s+%s'
 '|[Cc]opyright\s+©'
 '|[Cc]opyright\s+@copyright{ }'
 '|@set\s+copyright[\w-]+)'

 # 2: the years. Include the whitespace in the year, so that
 # we can remove any excess.
 '(\s*(?:' + ranges + ',?)'
 '@value\{[\^{}]*\})\s*')

 # 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_u gn.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
 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() + '\n'

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 OSError:
 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\n'
 % 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...\n\n'
 'Options:\n' % sys.argv[0])
 format = '%-15s %s\n'
 for (what, help) in self.option_help:
 sys.stdout.write (format % (what, help))
 sys.stdout.write ('\nDirectories:\n')

 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 woened by anyone.
 '.c',
 '.C',
 '.cc',
 '.h',
 '.hs',
 '.f',
 '.f90',
 '.go',
 '.inc',
 '.java',
])

 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',
])

 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,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
```

```

self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
```

```

self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
```

```

self.add_external_author ('The Go Authors. All rights reserved.')
```

```

self.add_external_author ('The Go Authors. All rights reserved.')
```

```

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',
 'libitm',
 'libmudflap',
 'libobjc',
 'libstdc++-v3',
]

```

GCCCmdLine().main()

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL-NS Stylesheets
V1.78.1" /><meta name="keywords" content="ISO C++, library" /><meta name="keywords" content="ISO C++,
runtime, library" /><link rel="home" href=".." /><link rel="up"
href="status.html" title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link
rel="next" href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
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align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
href="bugs.html">Next</td></tr></table><hr /></div><div class="section"><div
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 and one for the documentation.
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```

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<br />

Version3.1,31March2009<br />

<br />

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bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br />  
thefileisgovernedbyGPLv3alongwiththisException.<br />

<br />

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certainGCCheaderfilesandruntimelibrarieswiththecompiled<br />  
program.ThepurposeofthisExceptionistoallowcompilationof<br />  
non-GPL(includingproprietary)programstouse,inthisway,the<br />  
headerfilesandruntimelibrariescoveredbythisException.<br />

<br />

0.Definitions.<br />

<br />

Afileisan"IndependentModule"ifiteitherrequirestheRuntime<br />  
LibraryforexecutionafteraCompilationProcess,ormakesuseofan<br />  
interfaceprovidedbytheRuntimeLibrary,butisnototherwisebased<br />  
ontheRuntimeLibrary.<br />

<br />

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Chapter 1. Status	<a href="index.html">Home</a>	Bugs

Version 1.3, 3 November 2008

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<bridgehead xml:id="fdl-1-section5" renderas="sect2">

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</bridgehead>

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The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the

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<bridgehead xml:id="fdl-1-section6" renderas="sect2">

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<bridgehead xml:id="fdl-1-section7" renderas="sect2">

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</bridgehead>

<simpara>

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</simpara>

<bridgehead xml:id="fdl-1-section8" renderas="sect2">

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</simpara>

<bridgehead xml:id="fdl-1-section9" renderas="sect2">

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<bridgehead xml:id="fdl-1-section10" renderas="sect2">

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<bridgehead xml:id="fdl-1-section11" renderas="sect2">

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</bridgehead>

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<bridgehead xml:id="fdl-1-addendum" renderas="sect2">

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</bridgehead>

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</simpara>

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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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<simpara>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</simpara>

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 xml:id="appendix.gpl-3.0"><info><title>
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</title></info>
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Version 3, 29 June 2007

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Preamble

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When we speak of free software, we are referring to freedom, 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 them 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.

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<para>
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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.

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</para>
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<para>

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.

</para>

<para>

Developers that use the <acronym>GNU</acronym> <acronym>GPL</acronym> 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.

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users and authors sake, the <acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

</para>

<para>

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 <acronym>GPL</acronym> 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 <acronym>GPL</acronym>, as needed to protect the freedom of users.

</para>

<para>

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 <acronym>GPL</acronym> assures that patents cannot be used to render the program non-free.

</para>

<para>

The precise terms and conditions for copying, distribution and modification follow.

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

<para>

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</para>

<para>

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</para>

<para>

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Licensees and recipients may be individuals or organizations.

</para>

<para>

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.

</para>

<para>

A covered work means either the unmodified Program or a work based on the Program.

</para>

<para>

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.

</para>

<para>

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.

</para>

<para>

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.

</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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.

</para>

<para>

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.

</para>

<para>

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.

</para>

<para>

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 works 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.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

## 2. Basic Permissions.

</bridgehead>

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</para>

<para>

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</para>

<bridgehead xml:id="Protecting" renderas="sect1">

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</bridgehead>

<para>

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.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the works users, your or third parties legal rights to forbid circumvention of technological measures.

</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

#### 4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Programs source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

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.

</para>

<bridgehead xml:id="ConveyingModified" renderas="sect1">

#### 5. Conveying Modified Source Versions.

</bridgehead>

<para>

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:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

The work must carry prominent notices stating that you modified it, and giving a relevant date.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

</orderedlist>

<para>

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 compilations 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.

</para>

<bridgehead xml:id="ConveyingNonSource" renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

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:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

</orderedlist>

<para>

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.

</para>

<para>

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.

</para>

<para>

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

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</para>

<bridgehead xml:id="AdditionalTerms" renderas="sect1">

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<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

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Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.  
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<bridgehead xml:id="gpl-3-termination" renderas="sect1">  
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<bridgehead xml:id="AcceptanceNotRequired" renderas="sect1">

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<bridgehead xml:id="AutomaticDownstream" renderas="sect1">

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<bridgehead xml:id="Patents" renderas="sect1">

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<bridgehead xml:id="NoSurrender" renderas="sect1">

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<bridgehead xml:id="UsedWithAGPL" renderas="sect1">

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</para>

<bridgehead xml:id="RevisedVersions" renderas="sect1">

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<bridgehead xml:id="WarrantyDisclaimer" renderas="sect1">

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<bridgehead xml:id="LiabilityLimitation" renderas="sect1">

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<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

17. Interpretation of Sections 15 and 16.

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<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="HowToApply" renderas="sect1">

## How to Apply These Terms to Your New Programs

</bridgehead>

<para>

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.

</para>

<para>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the copyright line and a pointer to where the full notice is found.

</para>

<screen>

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

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</screen>

<para>

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

</para>

<para>

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

</para>

<screen>

```
<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of
author</replaceable>
```

This program comes with ABSOLUTELY NO WARRANTY; for details type <literal>show w</literal>. This is free software, and you are welcome to redistribute it under certain conditions; type <literal>show c</literal> for details.

</screen>

<para>

The hypothetical commands <literal>show w</literal> and

<literal>show c</literal> should show the appropriate parts of the General Public License. Of course, your programs commands might be different; for a GUI interface, you would use an about box.

</para>

<para>

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</para>

</appendix>

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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@appendixsubsec Preamble

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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.)

@item

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.

@item

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.

@item

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.

@item

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

@end enumerate

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.

@item

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:

@enumerate a

@item

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.

@item

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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@end enumerate

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

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@end smallexample

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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 library, if necessary. Here is a sample; alter the names:

@smallexample

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

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

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Version 2.1, February 1999

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^L

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Ty Coon, President of Vice

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Jan 21, 2002

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```

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```

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```
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```

```
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Ty Coon, President of Vice
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```

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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 © " + 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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```

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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.
```

```
*
```

```
* <p><code>Permission</code>'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 = -563657022231596674L;
```

```
/**
```

```

* 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 Guard interface for this class.
 * It calls the checkPermission method in
 * SecurityManager with this Permission as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the Object 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 Permission implies that the
 * specified Permission is also granted.
 *
 * @param perm the Permission 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 implies, rather
 * than equals, 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 Permission. It
* must satisfy the contract of Object.hashCode: 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 Permission.
*
* @return the name
*/
public final String getName()
{
 return name;
}

/**
* This method returns the list of actions for this Permission
* as a String. The string should be in canonical order, for
* example, both new FilePermission(f, "write,read") and
* new FilePermission(f, "read,write") have the action list
* "read,write".
*
* @return the action list for this Permission
*/
public abstract String getActions();

/**
* This method returns an empty PermissionCollection object
* that can store permissions of this type, or null if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* implies.
*
* @return a new PermissionCollection
*/
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
/* Permission.java -- Information about an ACL permission
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```

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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
* java.security.Permission.
```

```
*
```

```
* @version 0.0
```

```
*
```

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

```
*/
```

```
public interface Permission
```

```
{
```

```
/**
```

```
* This method tests whether or not a specified Permission
* (passed as an Object) is the same as this permission.
```

```
*
```

```
* @param perm The permission to check for equality
```

```
*
```

```
* @return true if the specified permission is the same as this one, false otherwise
```

```
*/
```

```
boolean equals (Object perm);
```

```
/**
```

```
* This method returns this Permission as a String.
```

```
*
```

```
* @return A String representing this permission.
```

```
*/
```

```
String toString();
```

```
}
```

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That's all there is to it!

# 1.450 libgpg-error 1.12 :3.el7

## 1.450.1 Available under license :

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Version 2.1, February 1999

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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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```

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DOCUMENTATION ROADMAP

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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

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

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included



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

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

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

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

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## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from <http://www.ecma-international.org/publications/techreports/E-TR-098.htm>. A PostScript version of the JFIF document is available at <http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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

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

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

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

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## 1.455 libmodman 2.0.1 :8.e17

### 1.455.1 Available under license :

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Version 2.1, February 1999

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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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## 1.457 libndp 1.2 :7.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.

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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

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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.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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



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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.)

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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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) 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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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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its purpose remains meaningful.

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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## 1.465 libphonenumber 1.0.0

# 1.466 libpng 1.5.13 :7.el7\_2

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September 27, 2012

# 1.467 libproxy 0.4.11 :10.e17

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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook XML V4.1.2//EN"
```

```
 "http://www.oasis-open.org/docbook/xml/4.1.2/docbookx.dtd">
```

```
<!-- lifted from troff+man by doclifter -->
```

```
<refentry>
```

```
<refentryinfo>
```

```
 <author><firstname>Paul</firstname><surname>Wouters</surname><authorblurb><para>placeholder to suppress warning</para> </authorblurb></author>
```

```
</refentryinfo>
```

```
<refmeta>
<refentrytitle>_REALSETUP</refentrytitle>
<manvolnum>8</manvolnum>
<refmiscinfo class='date'>25 Apr 2002</refmiscinfo>
<refmiscinfo class="source">libreswan</refmiscinfo>
<refmiscinfo class="manual">Executable programs</refmiscinfo>
</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='T'>_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
url='http://www.freeswan.org/'>http://www.freeswan.org/</ulink>>
by Michael Richardson. Original program by Henry Spencer.</para>
```

```
</refsect1>
</refentry>
Makefile for miscellaneous programs
Copyright (C) 2002 Michael Richardson <mcr@freeswan.org>
#
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. See <http://www.fsf.org/copyleft/gpl.txt>.
#
This program is distributed in the hope that it will be useful, but
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```

# for more details.

PROGRAM=\_realsetup

PROGRAMOBJDIR=\_realsetup.bsd

ifdef top\_srcdir

include \$(top\_srcdir)/mk/program.mk

else

include ../../mk/program.mk

endif

\\" t

.\" Title: \_REALSETUP

.\" Author: Paul Wouters

.\" Generator: DocBook XSL Stylesheets v1.77.1 <<http://docbook.sf.net/>>

.\" Date: 12/16/2012

.\" Manual: Executable programs

.\" Source: libreswan

.\" Language: English

.\"

.TH "\_REALSETUP" "8" "12/16/2012" "libreswan" "Executable programs"

.\" -----

.\" \* Define some portability stuff

.\" -----

.\" ~~~~~

.\" <http://bugs.debian.org/507673>

.\" <http://lists.gnu.org/archive/html/groff/2009-02/msg00013.html>

.\" ~~~~~

.ie \\n(.g .ds Aq \\(aq

.el .ds Aq '

.\" -----

.\" \* set default formatting

.\" -----

.\" disable hyphenation

.nh

.\" disable justification (adjust text to left margin only)

.ad l

.\" -----

.\" \* MAIN CONTENT STARTS HERE \*

.\" -----

.SH "NAME"

ipsec\_\_realsetup \\- internal routine to start FreeS/WAN\\&.

.SH "DESCRIPTION"

.PP

\\fI\_realsetup\\fR

is called by the system init scripts to start the FreeS/WAN system\\&. It starts

\\fBKlips\\fR

(the kernel component) and

\\fBpluto\\fR

(the userspace keying component)\&.

.SH "SEE ALSO"

.PP

\fBipsec\fR(8),

\fBipsec\_\_klipsstart\fR(8),

\fBipsec\_\_plutorun\fR(8)\&.

.SH "HISTORY"

.PP

Man page written for the Linux FreeS/WAN project <\m[blue]\fBhttp://www\&.freeswan\&.org\&\fR\m[ ]> by Michael Richardson\&. Original program by Henry Spencer\&.

.SH "AUTHOR"

.PP

\fBPaul Wouters\fR

.RS 4

placeholder to suppress warning

.RE

# 1.471 libseccomp 2.3.1 :3.el7

## 1.471.1 Available under license :

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Version 2.1, February 1999

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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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# 1.474 libsepol 2.5 :10.el7

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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

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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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Version 3, 29 June 2007

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## 1.481 libtiff 4.0.3 :27.el7\_3



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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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

```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
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@end smallexample
```

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Version 3, 29 June 2007

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```
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# 1.485 libusb 0.1.4 :3.el7

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## 1.486 libusb 1.0.20 :1.e17

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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.

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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That's all there is to it!

# 1.487 libuser 0.60 :7.e17\_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 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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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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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.1.2, March 19th, 1998

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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 <ftp://ds.internic.net/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](ftp://ds.internic.net/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](ftp://ds.internic.net/rfc/rfc1952.txt) (gzip format).

\*/

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## 1.493 libX11 1.6.5 :1.el7

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Fast discrete Fourier and cosine transforms and inverses

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.

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## WIS GO7007SB Public Linux Driver

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\*\*\* 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
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

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 configuration to correctly select the appropriate TV frequency band and audio subchannel.

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:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

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.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

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 gop_size	The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.
__u32 max_b_frames	The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)
enum go7007_aspect_ratio aspect_ratio	The aspect ratio to be encoded in the 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 flags	Bit-wise OR of control flags (below)
----------------	--------------------------------------

Flags in struct go7007\_comp\_params:

GO7007_COMP_CLOSED_GOP	Only produce self-contained GOPs, used 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 Bit-wise OR of control flags (below)
flags
```

```
__u32 The profile and level indication to be
pali 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

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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.

```
/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
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\*/

File: comm\_lib.h

=====

3.

/\* crypto/aes/aes.h -\*- mode:C; c-file-style: "eay" -\*- \*/

/\* =====

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\* =====

\*  
\*/

File Name list: aes.h, aes\_locl.h

=====

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

=====

5.

/\*=====

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\$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: (a 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 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 $
$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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Copyright (c) 2001, 2002, 2003 Steven Knight
#
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OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
#
#
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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

-----  
  
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\* Equivalent code is available from RSA Data Security, Inc.

\* This code has been tested against that, and is equivalent,

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\*

\* 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.

\*/

-----  
-----  
  
/\*

\* Written by Aaron D. Gifford <me@aarongifford.com>

\*

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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.

```

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* hash_32 - 32 bit Fowler/Noll/Vo hash code
*
* Fowler/Noll/Vo hash
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```

/*
 * sha1.c
 *
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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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*
* Version 1.0.0
*
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agere\_sta\_fw.bin -- 9.48 Hermes I

agere\_ap\_fw.bin -- 9.48 Hermes I

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Hope this helps.

Sincerely,

Viren Pathare  
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## 1.514 linuxconsoletools 1.4.5 :3.e17

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```
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```
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# 1.515 listenablefuture-9999.0-empty-to-avoid-conflict-with-guava 0.0

## 1.516 Iksctp-tools 1.0.17 :2.e17

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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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# 1.517 Im\_sensors 3.4.0

## :4.20160601gitf9185e5.e17

## 1.517.1 Available under license :

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

- \* Frodo Looijaard  
Original author of libsensors, sensors-detect, sensors and isadump.
- \* Merlin Hughes  
Original author of sensord.
- \* Bob Schlaermann  
Dynamic chip feature detection (a.k.a. generic chip support) in  
libsensors and sensors.
- \* Mark M. Hoffman  
Many improvements to the libsensors configuration file scanner.
- \* Jean Delvare  
New libsensors API, and migration of sensors and sensord thereto.  
Many optimizations in libsensors and sensors.  
Configuration file converter.  
Rewrite of sensors-detect.  
Support for multiple configuration files in libsensors.

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# 1.518 lockdev 1.0.4 :0.13.20111007git.el7

## 1.518.1 Available under license :

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# 1.524 log4j 1.2.17

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

```
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=====

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Version 3, 29 June 2007

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```
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```

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```
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```



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== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by <http://ourdelta.org/>, and are now managed by the MariaDB development team, [maria-developers@lists.launchpad.net](mailto:maria-developers@lists.launchpad.net)

MariaDB can be downloaded from <http://downloads.askmonty.org/mariadb/>

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Name Location Comment

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Warnings:

Warning 1681 '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
'#-----BS_STVARS_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\t\license_basic.test
#
Variable Name: license
Scope: Global
Access Type: Static
Data Type: string
#
#
Creation Date: 2008-02-07
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
#
Reference: http://dev.mysql.com/doc/refman/5.1/en/
server-system-variables.html
#
#####

--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 COUNT(@@GLOBAL.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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```

```
Version 2, June 1991
```

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```
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```
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```

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```
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```

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

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=====

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## 1.543 mdadm 4.0 :5.e17

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## 1.545 mesa 17.0.1 :6.20170307.e17

### 1.545.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>
<div class="content">

<h1>Disclaimer</h1>

<p>
Mesa is a 3-D graphics library with an API which is very similar to
```

that of [OpenGL](http://www.opengl.org/).\*

To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from [Silicon Graphics, Inc.](http://www.sgi.com/)(SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

Please do not refer to the library as *MesaGL* (for legal reasons). It's just *Mesa* or *The Mesa 3-D graphics library*.

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The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

```
Copyright (C) 1999-2007 Brian Paul All Rights Reserved.
```

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</pre>

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<p>

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.

</p>

## <h1>Mesa Component Licenses</h1>

<pre>

| Component            | Location                                       | License                     |
|----------------------|------------------------------------------------|-----------------------------|
| Main Mesa code       | src/ mesa/                                     | MIT                         |
| Device drivers       | src/ mesa/ drivers/ *                          | MIT, generally              |
| Gallium code         | src/ gallium/                                  | MIT                         |
| Ext headers          | include/ GL/ glxext.h<br>include/ GL/ glxext.h | Khronos                     |
| GLX client code      | src/ glx/                                      | SGI Free Software License B |
| C11 thread emulation | include/ c11/ threads*.h                       | Boost (permissive)          |

</pre>

<p>

In general, consult the source files for license terms.

</p>

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</body>

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/\* 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
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ABCDEFGHIJKLMNOPQRSTUVWXYZ
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(C) Copyright IBM Corporation 2004
All Rights Reserved.
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Permission is hereby granted, free of charge, to any person obtaining a
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IN THE SOFTWARE.
#
Authors:
Ian Romanick <idr@us.ibm.com>

bsd_license_template = """"%s
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```

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Subject: RE: Question about Mesa MLAA license  
From: Jorge Jimenez <iryoku@gmail.com>  
Date: 01/08/2013 12:50 PM  
To: Tom Callaway <tcallawa@redhat.com>  
CC: "jorge@iryoku.com" <jorge@iryoku.com>

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

==

Fedora Project

## 1.546 mgetty 1.2.1 :28.el7.centos

### 1.546.1 Available under license :

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Version 2, June 1991

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

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```
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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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```
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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## 1.551 mockito-all 1.10.19

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## 1.552 moment 2.22.0

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```

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<signature of Ty Coon>, 1 April 1989  
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## 1.558 ncurses 5.9 :14.20130511.e17\_4

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```

```
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## 1.562 nettle 2.7.1 :8.e17

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## 1.563 NetworkManager 1.8.0 :9.e17

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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.

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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

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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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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 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



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```

```
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```



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On all platforms, Nmap is normally linked with:

o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.

<http://www.tcpdump.org/>

o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.

<http://code.google.com/p/libdnet/>

o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library.

Distributed with Nmap in the libpcre subdirectory.

<http://www.pcre.org/>

o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.

<http://www.lua.org/>

o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.

<http://www.openssl.org/>

o LIBLINEAR. Used for IPv6 OS classification.

<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>

o libsvn. The Subversion library, used by the updater program

nmap-update. <http://subversion.apache.org/>

o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.

<http://www.winpcap.org/>

Certain Nmap Scripting Engine scripts use the simplified BSD license in

licenses/BSD-simplified.

Zenmap and Ndiff require:

- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.  
<http://www.python.org/>

The Windows and Mac OS X binary packages include bundled versions of:

- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.  
<http://www.gtk.org/>
- o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.  
<http://www.cairographics.org/>
- o libgailutil: Accessibility support for GTK+.
- o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.  
<http://www.libpng.org/> <http://www.iijg.org/> <http://www.libtiff.org/>
- o zlib and bzip2: compression libraries.  
<http://www.zlib.org/> <http://www.bzip.org/>
- o Expat: XML parser library.  
<http://expat.sourceforge.net/>
- o fontconfig: font configuration library.  
<http://www.fontconfig.org/>
- o FreeType: font rendering library.  
<http://www.freetype.org/>
- o libiconv. Under the GNU LGPL 2.  
<http://www.gnu.org/software/libiconv/>
- o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.  
<http://www.gnu.org/software/gettext/>
- o libxml2: XML parsing library.  
<http://xmlsoft.org/>
- o SQLite.  
<http://www.sqlite.org/>
- o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.  
<http://www.pygtk.org/>
- o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:

- o Various X.org libraries. These were built using MacPorts.  
<http://www.x.org/> <http://www.macports.org/>

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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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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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## Maintenance

36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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  47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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  51. [55]Harlan Stenn <harlan@pfc.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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  56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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- 57. [mailto:%20ajit@ee.udel.edu](mailto:ajit@ee.udel.edu)
- 58. [mailto:%20tsuruoka@nc.fukuoka-u.ac.jp](mailto:tsuruoka@nc.fukuoka-u.ac.jp)
- 59. [mailto:%20vixie@vix.com](mailto:vixie@vix.com)
- 60. [mailto:%20Ulrich.Windl@rz.uni-regensburg.de](mailto:Ulrich.Windl@rz.uni-regensburg.de)

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Version 2, June 1991

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```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
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it under the terms of the GNU General Public License as published by
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(at your option) any later version.
```

```
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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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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```
/* -*- Mode: Text -*- */
```

```
copyright = {
 date = "1970-2011";
 owner = "David L. Mills and/or others";
 eaddr = "http://bugs.ntp.org, bugs@ntp.org";
 type = note;
 text = <<<- _EndOfDoc_
 see html/copyright.html
```

```
EndOfDoc
};
```

```
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
```

```
version = `
eval VERSION=`sed -e 's/.*,\\[//' -e 's/^\\].*//' < ../version.m4`
[-z "${VERSION}"] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION;
```

```
version-value = "; /* Don't use -v as a shortcut for --version */
ntpstat is released under the terms of the GNU
General Public License version 2 (http://www.fsf.org/)
ntpstat is copyright (c) G. Richard Keech 2001
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
```

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
```

```
<title>Copyright Notice</title>
```

```
<link href="scripts/style.css" type="text/css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<h3>Copyright Notice</h3>
```

```
 "Clone me," says Dolly sheepishly.
```



<p>Last update:  
<!-- #BeginDate format:En2m -->1-Jan-2011 08:34<!-- #EndDate -->  
UTC</csobj></p>

<br clear="left">

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<li class="inline"><a href="mailto:%20mark\_andrews@isc.org">Mark Andrews <mark\_andrews@isc.org></a> Leitch atomic clock controller

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<li class="inline"><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a> GPSVME fixes

<li class="inline"><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file option

<li class="inline"><a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley <greg.brackley@bigfoot.com></a> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

<li class="inline"><a href="mailto:%20Marc.Brett@westgeo.com">Marc Brett <Marc.Brett@westgeo.com></a> Magnavox GPS clock driver

<li class="inline"><a href="mailto:%20Piete.Brooks@cl.cam.ac.uk">Piete Brooks  
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<li class="inline"><a href="mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois Boudreault  
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<li class="inline"><a href="mailto:%20clift@ml.csiro.au">Steve Clift <clift@ml.csiro.au></a> OMEGA clock  
 driver

<li class="inline"><a href="mailto:casey@csc.co.za">Casey Crellin <casey@csc.co.za></a> vxWorks (Tornado)  
 port and help with target configuration

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 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

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<li class="inline"><a href="mailto:%20dkatz@cisco.com">Dave Katz <dkatz@cisco.com></a> RS/6000 AIX port

<li class="inline"><a href="mailto:%20leres@ee.lbl.gov">Craig Leres <leres@ee.lbl.gov></a> 4.4BSD port,  
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<li class="inline"><a href="mailto:%20mogul@pa.dec.com">Jeffrey Mogul <mogul@pa.dec.com></a> ntptrace utility

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<li class="inline"><a href="mailto:%20kamal@whence.com">Kamal A Mostafa <kamal@whence.com></a> SCO OpenServer port

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regensburg.de> corrected and validated HTML documents according to the HTML DTD

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  13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
  14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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Public License instead of this License.

```
/* -*- Mode: Text -*- */
```

```
copyright = {
 date = "1970-2011";
 owner = "David L. Mills and/or others";
 eaddr = "http://bugs.ntp.org, bugs@ntp.org";
 type = note;
 text = <<<- _EndOfDoc_
 see html/copyright.html
```

```
EndOfDoc;
};
```

```
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
```

```
version = `
eval VERSION=\`sed -e 's/.*,\\[//' -e 's\\[.*/' < ../version.m4\
[-z "${VERSION}"] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;
```

```
version-value = "; /* Don't use -v as a shortcut for --version */
```

```
ntpstat is released under the terms of the GNU
General Public License version 2 (http://www.fsf.org/)
ntpstat is copyright (c) G. Richard Keech 2001
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
```

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Version 3, 29 June 2007

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<link href="scripts/style.css" type="text/css" rel="stylesheet">

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<body>

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<p>Last update:

<!-- #BeginDate format:En2m -->1-Jan-2011 08:34<!-- #EndDate -->

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<p>The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.</p>

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<li class="inline"><a href="mailto:%20takao\_abe@xurb.jp">Takao Abe <takao\_abe@xurb.jp></a> Clock driver for JY receivers

<li class="inline"><a href="mailto:%20mark\_andrews@isc.org">Mark Andrews <mark\_andrews@isc.org></a> Leitch atomic clock controller

<li class="inline"><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier <altmeier@atsoft.de></a> hopf Elektronik serial line and PCI-bus devices

<li class="inline"><a href="mailto:%20vbais@mailman1.intel.co">Viraj Bais <vbais@mailman1.intel.com></a> and <a href="mailto:%20kirkwood@striderfm.intel.com">Clayton Kirkwood <kirkwood@striderfm.intel.com></a> port to WindowsNT 3.5

<li class="inline"><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a> GPSVME fixes

<li class="inline"><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file option

- <li class="inline"><a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley  
<greg.brackley@bigfoot.com></a> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- <li class="inline"><a href="mailto:%20Marc.Brett@westgeo.com">Marc Brett <Marc.Brett@westgeo.com></a> Magnavox GPS clock driver
- <li class="inline"><a href="mailto:%20Piete.Brooks@cl.cam.ac.uk">Piete Brooks  
<Piete.Brooks@cl.cam.ac.uk></a> MSF clock driver, Trimble PARSE support
- <li class="inline"><a href="mailto:%20nelson@bolyard.me">Nelson B Bolyard <nelson@bolyard.me></a> update and complete broadcast and crypto features in snpt
- <li class="inline"><a href="mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois Boudreault  
<Jean-Francois.Boudreault@viagenie.qc.ca></a> IPv6 support
- <li class="inline"><a href="mailto:%20reg@dwf.com">Reg Clemens <reg@dwf.com></a> Oncore driver (Current maintainer)
- <li class="inline"><a href="mailto:%20clift@ml.csiro.au">Steve Clift <clift@ml.csiro.au></a> OMEGA clock driver
- <li class="inline"><a href="mailto:casey@csc.co.za">Casey Crellin <casey@csc.co.za></a> vxWorks (Tornado) port and help with target configuration
- <li class="inline"><a href="mailto:%20Sven\_Dietrich@trimble.COM">Sven Dietrich  
<sven\_dietrich@trimble.com></a> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- <li class="inline"><a href="mailto:%20dundas@salt.jpl.nasa.gov">John A. Dundas III  
<dundas@salt.jpl.nasa.gov></a> Apple A/UX port
- <li class="inline"><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe  
<duwe@immd4.informatik.uni-erlangen.de></a> Linux port
- <li class="inline"><a href="mailto:%20dennis@mrbill.canet.ca">Dennis Ferguson <dennis@mrbill.canet.ca></a> foundation code for NTP Version 2 as specified in RFC-1119
- <li class="inline"><a href="mailto:%20jhay@icomtek.csir.co.za">John Hay <jhay@icomtek.csir.co.za></a> IPv6 support and testing
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- <li class="inline"><a href="mailto:%20neoclock4x@linum.com">Claas Hilbrecht <neoclock4x@linum.com></a> NeoClock4X clock driver
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- <li class="inline"><a href="mailto:%20jagubox.gsfc.nasa.gov">Jim Jagielski <jim@jagubox.gsfc.nasa.gov></a> A/UX port
- <li class="inline"><a href="mailto:%20jbj@chatham.usdesign.com">Jeff Johnson  
<jbj@chatham.usdesign.com></a> massive prototyping overhaul
- <li class="inline"><a href="mailto:Hans.Lambermont@nl.origin-it.com">Hans Lambermont  
<Hans.Lambermont@nl.origin-it.com></a> or <a href="mailto:H.Lambermont@chello.nl">H.Lambermont@chello.nl</a> ntpsweep
- <li class="inline"><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp <phk@FreeBSD.ORG></a> Oncore driver (Original author)
- <li class="inline"><a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> <a href="mailto:%20kardel(at)ntp(dot)org">kardel(at)ntp(dot)org</a> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
- <li class="inline"><a href="mailto:%20jones@hermes.chpc.utexas.edu">William L. Jones  
<jones@hermes.chpc.utexas.edu></a> RS/6000 AIX modifications, HPUX modifications

<li class="inline"><a href="mailto:%20dkatz@cisco.com">Dave Katz <dkatz@cisco.com></a> RS/6000 AIX port  
 <li class="inline"><a href="mailto:%20leres@ee.lbl.gov">Craig Leres <leres@ee.lbl.gov></a> 4.4BSD port,  
 ppsclock, Magnavox GPS clock driver  
 <li class="inline"><a href="mailto:%20lindholm@ucs.ubc.ca">George Lindholm <lindholm@ucs.ubc.ca></a>  
 SunOS 5.1 port  
 <li class="inline"><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-  
 based authentication  
 <li class="inline"><a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen <thorinn@diku.dk></a> adaptation  
 of foundation code for Version 3 as specified in RFC-1305  
 <li class="inline"><a href="mailto:%20mayer@ntp.org">Danny Mayer <mayer@ntp.org></a> Network I/O,  
 Windows Port, Code Maintenance  
 <li class="inline"><a href="mailto:%20mills@udel.edu">David L. Mills <mills@udel.edu></a> Version 4  
 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath,  
 ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG  
 <li class="inline"><a href="mailto:%20moeller@gwdgv1.dnet.gwdg.de">Wolfgang Moeller  
 <moeller@gwdgv1.dnet.gwdg.de></a> VMS port  
 <li class="inline"><a href="mailto:%20mogul@pa.dec.com">Jeffrey Mogul <mogul@pa.dec.com></a> ntptrace  
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 <tmoore@fievel.daytonoh.ncr.com></a> i386 svr4 port  
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 ARCRON MSF clock driver  
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 automake/autoconfigure makeover, various other bits (see the ChangeLog)  
 <li class="inline"><a href="mailto:%20ken@sdd.hp.com">Kenneth Stone <ken@sdd.hp.com></a> HP-UX port  
 <li class="inline"><a href="mailto:%20ajit@ee.udel.edu">Ajit Thyagarajan <ajit@ee.udel.edu></a> IP  
 multicast/anycast support

```
<li class="inline">Tomoaki TSURUOKA
<tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
<li class="inline">Paul A Vixie <vixie@vix.com> TrueTime GPS
driver, generic TrueTime clock driver
<li class="inline">Ulrich Windl <Ulrich.Windl@rz.uni-
regensburg.de> corrected and validated HTML documents according to the HTML DTD

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# 1.579 numactl-libs 2.0.9 :6.e17\_2

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

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```
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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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<signature of Ty Coon>, 1 April 1989  
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Version 2.1, February 1999

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# 1.580 Objenesis 2.1

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# 1.581 Objenesis 1.2

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Version: json-20090211.jar

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# 1.584 opencsv 3.3

## 1.584.1 Available under license :

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# 1.585 opencsv 2.0

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# 1.586 openfire 4.2.3

## 1.586.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <link rel="dns-prefetch" href="https://assets-cdn.github.com">
 <link rel="dns-prefetch" href="https://avatars0.githubusercontent.com">
 <link rel="dns-prefetch" href="https://avatars1.githubusercontent.com">
 <link rel="dns-prefetch" href="https://avatars2.githubusercontent.com">
 <link rel="dns-prefetch" href="https://avatars3.githubusercontent.com">
 <link rel="dns-prefetch" href="https://github-cloud.s3.amazonaws.com">
 <link rel="dns-prefetch" href="https://user-images.githubusercontent.com/">

 <link crossorigin="anonymous" media="all" integrity="sha512-
FCg44VGg5ax/5MpZ8otwiPE+/tG1/Sq67mKkl6agbqgoScZtJyXhQSFQMIJfOHMZZ+yXDINb8nEiws60SiLohg=
=" rel="stylesheet" href="https://assets-cdn.github.com/assets/frameworks-
5aa6d9885579bb2359f66266aee26f3b.css" />
 <link crossorigin="anonymous" media="all" integrity="sha512-
7j4LVYeYSjq7II+1Az2Ymgldh1yZseGZInIyLEgtZiWTttnprn5+JEKrgObqOcqvW5+OCSbnA8NpZI/qDa3ZGA==
" rel="stylesheet" href="https://assets-cdn.github.com/assets/github-2b01a1367b91dfcbff5f1f644cbc7dcd.css" />

 <link crossorigin="anonymous" media="all" integrity="sha512-
MCKY7xCBvN707mk61oFcp8d+7twmv0QJlIpv5KvZtBwC7/SBwK0E8KEo1CcC8nxnRkiBtZFrDXhb+ovgrFdTiQ
==" rel="stylesheet" href="https://assets-cdn.github.com/assets/site-a9e4b9870c7285a07575dc12a3f5eb9a.css" />

 <meta name="viewport" content="width=device-width">

 <title>Openfire/LICENSE.txt at v4.2.3 igniterealtime/Openfire GitHub</title>
 <meta name="description" content="A XMPP server licensed under the Open Source Apache License. -
igniterealtime/Openfire">
 <link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
 <link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
```

<meta property="fb:app\_id" content="1401488693436528">

<meta property="og:image" content="https://avatars3.githubusercontent.com/u/5991032?s=400&v=4" /><meta property="og:site\_name" content="GitHub" /><meta property="og:type" content="object" /><meta property="og:title" content="igniterealtime/Openfire" /><meta property="og:url" content="https://github.com/igniterealtime/Openfire" /><meta property="og:description" content="A XMPP server licensed under the Open Source Apache License. - igniterealtime/Openfire" />

<link rel="assets" href="https://assets-cdn.github.com/">

<meta name="ajax-timeout" content="1000">

<meta name="request-id" content="FEA5:6AD7:671DA6E:B2EA4E0:5BBC9DC7" data-pjax-transient>

<meta name="selected-link" value="repo\_source" data-pjax-transient>

<meta name="google-site-verification" content="KT5gs8h0wvaagLKA Vwq8bbeNwnZZK1r1XQysX3xurLU">  
<meta name="google-site-verification" content="ZzhVyEFwb7w3e0-uOTltm8Jsck2F5StVihD0exw2fsA">  
<meta name="google-site-verification" content="GXs5KoUUkNCoaAZn7wPN-t01Pywp9M3sEjnt\_3\_ZWPc">

<meta name="octolytics-host" content="collector.githubapp.com" /><meta name="octolytics-app-id" content="github" /><meta name="octolytics-event-url" content="https://collector.githubapp.com/github-external/browser\_event" /><meta name="octolytics-dimension-request\_id" content="FEA5:6AD7:671DA6E:B2EA4E0:5BBC9DC7" /><meta name="octolytics-dimension-region\_edge" content="iad" /><meta name="octolytics-dimension-region\_render" content="iad" />  
<meta name="analytics-location" content="/<user-name>/<repo-name>/blob/show" data-pjax-transient="true" />

<meta name="google-analytics" content="UA-3769691-2">

<meta class="js-ga-set" name="dimension1" content="Logged Out">

<meta name="hostname" content="github.com">  
<meta name="user-login" content="">

<meta name="expected-hostname" content="github.com">  
<meta name="js-proxy-site-detection-payload" content="Mjg2YjM4NmJmNGNmZmEwMGUyMTdkOTk0MDVmYzQ0ODY3ZmFiNjY2ODBhNzE1NGFkZWJ

hNWQwMmU0ZjliZDFhMnx7InJlbW90ZV9hZGRyZXNzIjoiNzIuMTYzLjIyMC4xOSIsInJlcXVlc3RfaWQiOiJGRUE1OjZBRDc6NjcxREE2RTpCMkVBNEUwOjVCQkM5REM3IiwidGltZXN0YXV1wIjoxNTM5MDg3ODIxLCJob3N0IjoiZ2l0aHVhLmNvbSJ9">

<meta name="enabled-features" content="DASHBOARD\_V2\_LAYOUT\_OPT\_IN,EXPLORE\_DISCOVER\_REPOSITORIES,UNIVERSE\_BANNER,MARKETPLACE\_PLAN\_RESTRICTION\_EDITOR">

<meta name="html-safe-nonce" content="4259597210b5c3433d3eeb331cc8dd04b2009349">

<meta http-equiv="x-pjax-version" content="2c3d716bf6a526fe639ca5090f2ed846">

<link href="https://github.com/igniterealtime/Openfire/commits/v4.2.3.atom" rel="alternate" title="Recent Commits to Openfire:v4.2.3" type="application/atom+xml">

<meta name="go-import" content="github.com/igniterealtime/Openfire git https://github.com/igniterealtime/Openfire.git">

<meta name="octolytics-dimension-user\_id" content="5991032" /><meta name="octolytics-dimension-user\_login" content="igniterealtime" /><meta name="octolytics-dimension-repository\_id" content="18511687" /><meta name="octolytics-dimension-repository\_nwo" content="igniterealtime/Openfire" /><meta name="octolytics-dimension-repository\_public" content="true" /><meta name="octolytics-dimension-repository\_is\_fork" content="false" /><meta name="octolytics-dimension-repository\_network\_root\_id" content="18511687" /><meta name="octolytics-dimension-repository\_network\_root\_nwo" content="igniterealtime/Openfire" /><meta name="octolytics-dimension-repository\_explore\_github\_marketplace\_ci\_cta\_shown" content="false" />

<link rel="canonical" href="https://github.com/igniterealtime/Openfire/blob/v4.2.3/LICENSE.txt" data-pjax-transient>

<meta name="browser-stats-url" content="https://api.github.com/\_private/browser/stats">

<meta name="browser-errors-url" content="https://api.github.com/\_private/browser/errors">

<link rel="mask-icon" href="https://assets-cdn.github.com/pinned-octocat.svg" color="#000000">

<link rel="icon" type="image/x-icon" class="js-site-favicon" href="https://assets-cdn.github.com/favicon.ico">

<meta name="theme-color" content="#1e2327">

<link rel="manifest" href="/manifest.json" crossOrigin="use-credentials">

</head>

<body class="logged-out env-production page-blob">

```
<div class="position-relative js-header-wrapper ">
 <a href="#start-of-content" tabindex="1" class="px-2 py-4 bg-blue text-white show-on-focus js-skip-to-
content">Skip to content
 <div id="js-pjax-loader-bar" class="pjax-loader-bar"><div class="progress"></div></div>
```

```
<header class="Header header-logged-out position-relative f4 py-3" role="banner">
 <div class="container-lg d-flex px-3">
 <div class="d-flex flex-justify-between flex-items-center">
 <a class="header-logo-invertocat my-0" href="https://github.com/" aria-label="Homepage" data-ga-
click="(Logged out) Header, go to homepage, icon:logo-wordmark">
 <svg height="32" class="octicon octicon-mark-github" viewBox="0 0 16 16" version="1.1" width="32" aria-
hidden="true"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.4.07.55-.17.55-.38
0-.19-.01-.82-.01-1.49-2.01-.37-2.53-.49-2.69-.94-.09-.23-.48-.82-1.13-.28-.15-.68-.52-.01-.53.63-.01 1.08.58
1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-
1.02.08-2.12 0 0 .67-.21 2.28.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08
2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0
.21.15.46.55.38A8.013 8.013 0 0 0 16 8c0-4.42-3.58-8-8-8z"/></svg>

 </div>
 </div>
```

```
<div class="HeaderMenu d-flex flex-justify-between flex-auto">
 <nav class="mt-0">
 <ul class="d-flex list-style-none">
 <li class="ml-2">
 <a class="js-selected-navigation-item HeaderNavLink px-0 py-2 m-0" data-ga-click="Header, click, Nav
menu - item:features" data-selected-links="/features /features/project-management /features/code-review
/features/project-management /features/integrations /features" href="/features">
 Features

 <li class="ml-4">
 <a class="js-selected-navigation-item HeaderNavLink px-0 py-2 m-0" data-ga-click="Header, click, Nav
menu - item:business" data-selected-links="/business /business/security /business/customers /business"
href="/business">
 Business

 <li class="ml-4">
 <a class="js-selected-navigation-item HeaderNavLink px-0 py-2 m-0" data-ga-click="Header, click, Nav
```

```

menu - item:explore" data-selected-links="/explore /trending /trending/developers /integrations
/integrations/feature/code /integrations/feature/collaborate /integrations/feature/ship showcases showcases_search
showcases_landing /explore" href="/explore">
 Explore

<li class="ml-4">
 <a class="js-selected-navigation-item HeaderNavLink px-0 py-2 m-0" data-ga-click="Header, click, Nav
menu - item:marketplace" data-selected-links="/marketplace" href="/marketplace">
 Marketplace

<li class="ml-4">
 <a class="js-selected-navigation-item HeaderNavLink px-0 py-2 m-0" data-ga-click="Header, click, Nav
menu - item:pricing" data-selected-links="/pricing /pricing/developer /pricing/team /pricing/business-hosted
/pricing/business-enterprise /pricing" href="/pricing">
 Pricing

</nav>

<div class="d-flex">
 <div class="d-lg-flex flex-items-center mr-3">
 <div class="header-search scoped-search site-scoped-search js-site-search position-relative js-jump-to"
role="combobox"
aria-owns="jump-to-results"
aria-label="Search or jump to"
aria-haspopup="listbox"
aria-expanded="false"
>
 <div class="position-relative">
 <!-- "" --><!-- </textarea></xmp> --></option></form><form class="js-site-search-form" data-scope-
type="Repository" data-scope-id="18511687" data-scoped-search-url="/igniterealtime/Openfire/search" data-
unscoped-search-url="/search" action="/igniterealtime/Openfire/search" accept-charset="UTF-8"
method="get"><input name="utf8" type="hidden" value="#x2713;" />
 <label class="form-control header-search-wrapper header-search-wrapper-jump-to position-relative d-flex flex-
justify-between flex-items-center js-chromeless-input-container">
 <input type="text"
 class="form-control header-search-input jump-to-field js-jump-to-field js-site-search-focus js-site-search-field
is-clearable"
 data-hotkey="s,/"
 name="q"
 value=""
 placeholder="Search"
 data-unscoped-placeholder="Search GitHub"
 data-scoped-placeholder="Search"
 autocapitalize="off"
 aria-autocomplete="list"
 aria-controls="jump-to-results"

```



```

data-jump-to-suggestions-path="/_graphql/GetSuggestedNavigationDestinations#csrf-
token=P2Un0SQGka+JsVREHyseHE+yEVWuXsxN2rvcB3jz79Bo1ALiNPRou5DyArAkntJoBs6CYIVJlwAMe1H
fDhYERQ=="
spellcheck="false"
autocomplete="off"
>
<input type="hidden" class="js-site-search-type-field" name="type" >

 <div class="Box position-absolute overflow-hidden d-none jump-to-suggestions js-jump-to-suggestions-
container">
 <ul class="d-none js-jump-to-suggestions-template-container">
 <li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item"
role="option">
 <a tabindex="-1" class="no-underline d-flex flex-auto flex-items-center p-2 jump-to-suggestions-path js-
jump-to-suggestion-path js-navigation-open" href="">
 <div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none">
 <svg height="16" width="16" class="octicon octicon-repo flex-shrink-0 js-jump-to-octicon-repo d-
none" title="Repository" aria-label="Repository" viewBox="0 0 12 16" version="1.1" role="img"><path fill-
rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1
1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-
2zm0-10H2v9h9V1z"/></svg>
 <svg height="16" width="16" class="octicon octicon-project flex-shrink-0 js-jump-to-octicon-project
d-none" title="Project" aria-label="Project" viewBox="0 0 15 16" version="1.1" role="img"><path fill-
rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0
0-1 1v14a1 1 0 0 1 1h13a1 1 0 0 1 1V1a1 1 0 0 1-1z"/></svg>
 <svg height="16" width="16" class="octicon octicon-search flex-shrink-0 js-jump-to-octicon-search d-
none" title="Search" aria-label="Search" viewBox="0 0 16 16" version="1.1" role="img"><path fill-
rule="evenodd" d="M15.7 13.3l-3.81-3.83A5.93 5.93 0 0 0 13 6c0-3.31-2.69-6-6-6S1 2.69 1 6s2.69 6 6 6c1.3 0
2.48-.41 3.47-1.11l3.83 3.81c.19 2.45 3.7 3.25 0 .52-.09 7-.3a.996.996 0 0 0-1.41v.01zM7 10.7c-2.59 0-4.7-2.11-
4.7-4.7 0-2.59 2.11-4.7 4.7-4.7 2.59 0 4.7 2.11 4.7 4.7 0 2.59-2.11 4.7-4.7 4.7z"/></svg>
 </div>
 <img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team"
src="" width="28" height="28">
 <div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left
no-wrap css-truncate css-truncate-target">
 </div>
 <div class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none js-jump-to-
badge-search">

 In this repository

 All GitHub

 </div>

 </div>

```

```


 </div>

 <div aria-hidden="true" class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-
none d-on-nav-focus js-jump-to-badge-jump">
 Jump to

 </div>

<ul class="d-none js-jump-to-no-results-template-container">
 <li class="d-flex flex-justify-center flex-items-center p-3 f5 d-none">
 No suggested jump to results

<ul id="jump-to-results" role="listbox" class="js-navigation-container jump-to-suggestions-results-
container js-jump-to-suggestions-results-container" >
 <li class="d-flex flex-justify-center flex-items-center p-0 f5">

</div>
</label>
</form> </div>
</div>

</div>

 <div class="HeaderNavlink px-0 py-2 m-0">
 <a class="text-bold text-white no-underline"
href="/login?return_to=%2Figniterealtime%2FOpenfire%2Fblob%2Fv4.2.3%2FLICENSE.txt" data-ga-
click="(Logged out) Header, clicked Sign in, text:sign-in">Sign in
 or
 <a class="text-bold text-white no-underline" href="/join?source=header-repo" data-ga-click="(Logged out)
Header, clicked Sign up, text:sign-up">Sign up
 </div>

</div>
</div>
</div>
</div>
</div>
</div>
</div>

```

```
<div id="start-of-content" class="show-on-focus"></div>
```

```
<div id="js-flash-container">
```

```
</div>
```

```
<div role="main" class="application-main ">
```

```
 <div itemscope itemtype="http://schema.org/SoftwareSourceCode" class="">
```

```
 <div id="js-repo-pjax-container" data-pjax-container >
```

```
<div class="pagehead repohead instapaper_ignore readability-menu experiment-repo-nav ">
```

```
 <div class="repohead-details-container clearfix container">
```

```
 <ul class="pagehead-actions">
```

```

```

```
 <a href="/login?return_to=%2Figniterealtime%2FOpenfire"
```

```
 class="btn btn-sm btn-with-count tooltipped tooltipped-s"
```

```
 aria-label="You must be signed in to watch a repository" rel="nofollow">
```

```
 <svg class="octicon octicon-eye v-align-text-bottom" viewBox="0 0 16 16" version="1.1" width="16"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M8.06 2C3 2 0 8 3 6 8.06 6C13 14 16 8 16 8s-3-
6-7.94-6zM8 12c-2.2 0-4-1.78-4-4 0-2.2 1.8-4 4-4 2.2 0 4 1.8 4 4 0 2.2-1.78 4-4 4zm2-4c0 1.11-.89 2-2 2-1.11 0-
2-.89-2-2 0-1.11.89-2 2-2 1.11 0 2 .89 2 2z"/></svg>
```

```
 Watch
```

```

```

```
 <a class="social-count" href="/igniterealtime/Openfire/watchers"
```

```
 aria-label="239 users are watching this repository">
```

```
 239
```

```

```

```

```

```

```

```
 <a href="/login?return_to=%2Figniterealtime%2FOpenfire"
```

```
 class="btn btn-sm btn-with-count tooltipped tooltipped-s"
```

```
 aria-label="You must be signed in to star a repository" rel="nofollow">
```

```
<svg class="octicon octicon-star v-align-text-bottom" viewBox="0 0 14 16" version="1.1" width="14"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M14 6l-4.9-.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14 7
11.67 11.33 14l-.93-4.74L14 6z"/></svg>
Star

```

```
<a class="social-count js-social-count" href="/igniterealtime/Openfire/stargazers"
aria-label="1681 users starred this repository">
1,681

```

```

```

```

```

```
<a href="/login?return_to=%2Figniterealtime%2FOpenfire"
class="btn btn-sm btn-with-count tooltipped tooltipped-s"
aria-label="You must be signed in to fork a repository" rel="nofollow">
<svg class="octicon octicon-repo-forked v-align-text-bottom" viewBox="0 0 10 16" version="1.1" width="10"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M8 1a1.993 1.993 0 0 0-1 3.72V6L5 8 3
6V4.72A1.993 1.993 0 0 2 1a1.993 1.993 0 0 0-1 3.72V6.5l3 3v1.78A1.993 1.993 0 0 5 15a1.993 1.993 0 0 1-
3.72V9.5l3-3V4.72A1.993 1.993 0 0 8 1zM2 4.2C1.34 4.2 3.65 8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0
.65-.55 1.2-1.2 1.2zm3 10c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3-
10c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
Fork

```

```
<a href="/igniterealtime/Openfire/network/members" class="social-count"
aria-label="997 users forked this repository">
997


```

```
<h1 class="public ">
<svg class="octicon octicon-repo" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-
2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45
1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
<a class="url fn" rel="author"
href="/igniterealtime">igniterealtime<!--
--><!--
--><strong itemprop="name"><a data-pjax="#js-repo-pjax-container"
href="/igniterealtime/Openfire">Openfire
</h1>
</div>
```

```

<nav class="reponav js-repo-nav js-sidenav-container-pjax container"
 itemscope
 itemtype="http://schema.org/BreadcrumbList"
 role="navigation"
 data-pjax="#js-repo-pjax-container">

 <a class="js-selected-navigation-item selected reponav-item" itemprop="url" data-hotkey="g c" data-selected-
links="repo_source repo_downloads repo_commits repo_releases repo_tags repo_branches repo_packages
/igniterealtime/Openfire/tree/v4.2.3" href="/igniterealtime/Openfire/tree/v4.2.3">
 <svg class="octicon octicon-code" viewBox="0 0 14 16" version="1.1" width="14" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M9.5 3L8 4.5 11.5 8 8 11.5 9.5 13 14 8 9.5 3zm-5 0L0 8l4.5 5L6 11.5
2.5 8 6 4.5 4.5 3z"/></svg>
 Code
 <meta itemprop="position" content="1">

 <a data-hotkey="g p" itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-
links="repo_pulls checks /igniterealtime/Openfire/pulls" href="/igniterealtime/Openfire/pulls">
 <svg class="octicon octicon-git-pull-request" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M11 11.28V5c-.03-.78-.34-1.47-.94-2.06C9.46 2.35 8.78 2.03 8
2H7V0L4 3l3V4h1c.27.02.48.11.69.31.21.2.3.42.31.69v6.28A1.993 1.993 0 0 0 10 15a1.993 1.993 0 0 0 1-
3.72zm-1 2.92c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zM4 3c0-1.11-
.89-2-2-2a1.993 1.993 0 0 0-1 3.72v6.56A1.993 1.993 0 0 0 2 15a1.993 1.993 0 0 0 1-3.72V4.72c.59-.34 1-.98 1-
1.72zm-.8 10c0 .66-.55 1.2-1.2 1.2-.65 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2zM2 4.2C1.34 4.2.8
3.65.8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
 Pull requests
 4
 <meta itemprop="position" content="3">

 <a data-hotkey="g b" class="js-selected-navigation-item reponav-item" data-selected-links="repo_projects
new_repo_project repo_project /igniterealtime/Openfire/projects" href="/igniterealtime/Openfire/projects">
 <svg class="octicon octicon-project" viewBox="0 0 15 16" version="1.1" width="15" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4 2h3V2H6v8zm-4 4h3V2H2v12zm-1
1h13V1H1v14zM14 0H1a1 1 0 0 0-1 1v14a1 1 0 0 0 1 1h13a1 1 0 0 0 1-1V1a1 1 0 0 0-1-1z"/></svg>
 Projects
 0

 <a class="js-selected-navigation-item reponav-item" data-hotkey="g w" data-selected-links="repo_wiki
/igniterealtime/Openfire/wiki" href="/igniterealtime/Openfire/wiki">
 <svg class="octicon octicon-book" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M3 5h4v1H3V5zm0 3h4V7H3v1zm0 2h4V9H3v1zm11-5h-
4v1h4V5zm0 2h-4v1h4V7zm0 2h-4v1h4V9zm2-6v9c0 .55-.45 1-1 1H9.5l-1 1-1-1H2c-.55 0-1-.45-1-1V3c0-.55.45-

```

```
1 1-1h5.511 1 1-1H15c.55 0 1 .45 1 1zm-8 .5L7.5 3H2v9h6V3.5zm7-.5H9.5l-.5.5V12h6V3z"/></svg>
```

Wiki

```

```

```
<a class="js-selected-navigation-item reponav-item" data-selected-links="repo_graphs repo_contributors
dependency_graph pulse alerts /igniterealtime/Openfire/pulse" href="/igniterealtime/Openfire/pulse">
```

```
<svg class="octicon octicon-graph" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M16 14v1H0V0h1v14h15zM5 13H3V8h2v5zm4 0H7V3h2v10zm4
0h-2V6h2v7z"/></svg>
```

Insights

```

```

```
</nav>
```

```
</div>
```

```
<div class="container new-discussion-timeline experiment-repo-nav ">
```

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

```
<a class="d-none js-permalink-shortcut" data-hotkey="y"
href="/igniterealtime/Openfire/blob/64f46292cf130280b5ca7a3ad54bc2fecec01fc6/LICENSE.txt">Permalink
```

```
<!-- blob contrib key: blob_contributors:v21:14cb118e4cdf64f309fe7ba11d219264 -->
```

```
<div class="signup-prompt-bg rounded-1">
```

```
<div class="signup-prompt p-4 text-center mb-4 rounded-1">
```

```
<div class="position-relative">
```

```
<!-- "" --><!-- </textarea></xmp> --></option></form><form action="/site/dismiss_signup_prompt" accept-
charset="UTF-8" method="post"><input name="utf8" type="hidden" value="✓" /><input type="hidden"
name="authenticity_token"
value="/B1ncUSM+KCqKY+CTi94pvtuVdSdtlq4PRyFTl27Wf5kiwcUypLPJCOStXcruREkKOjdndMKw7OyPp2
vw5vTg==" />
```

```
<button type="submit" class="position-absolute top-0 right-0 btn-link link-gray" data-ga-click="(Logged out)
Sign up prompt, clicked Dismiss, text:dismiss">
```

Dismiss

```
</button>
```

```
</form> <h3 class="pt-2">Join GitHub today</h3>
```

```
<p class="col-6 mx-auto">GitHub is home to over 28 million developers working together to host and review
code, manage projects, and build software together.</p>
```

```
<a class="btn btn-primary" href="/join?source=prompt-blob-show" data-ga-click="(Logged out) Sign up
prompt, clicked Sign up, text:sign-up">Sign up
```

```
</div>
```

```
</div>
```

```
</div>
```

```

<div class="file-navigation">

<div class="select-menu branch-select-menu js-menu-container js-select-menu float-left">
<button class=" btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"

type="button" aria-label="Switch branches or tags" aria-expanded="false" aria-haspopup="true">
 <i>Tag:</i>
 v4.2.3
</button>

<div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax>

<div class="select-menu-modal">
<div class="select-menu-header">
 <svg class="octicon octicon-x js-menu-close" role="img" aria-label="Close" viewBox="0 0 12 16"
version="1.1" width="12" height="16"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75
3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
 Switch branches/tags
</div>

<div class="select-menu-filters">
<div class="select-menu-text-filter">
 <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="form-control
js-filterable-field js-navigation-enable" placeholder="Filter branches/tags">
</div>
<div class="select-menu-tabs">

 <li class="select-menu-tab">
 <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-
tab" role="tab">Branches

 <li class="select-menu-tab">
 <a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag" class="js-select-menu-tab"
role="tab">Tags

</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches"
role="menu">

<div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/3.9/LICENSE.txt"

```

```
 data-name="3.9"
 data-skip-pjax="true"
 rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 3.9

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/3.10/LICENSE.txt"
data-name="3.10"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 3.10

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/4.0/LICENSE.txt"
data-name="4.0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 4.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/4.1/LICENSE.txt"
data-name="4.1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 4.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/4.2/LICENSE.txt"
```



```
data-name="4.2"
data-skip-pjax="true"
rel="nofollow">
<svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

4.2

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/OF-929/LICENSE.txt"
data-name="OF-929"
data-skip-pjax="true"
rel="nofollow">
<svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

OF-929

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/OF-973/LICENSE.txt"
data-name="OF-973"
data-skip-pjax="true"
rel="nofollow">
<svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

OF-973

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/OF-1041/LICENSE.txt"
data-name="OF-1041"
data-skip-pjax="true"
rel="nofollow">
<svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

OF-1041

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/OF-1374/LICENSE.txt"
```

```

 data-name="OF-1374"
 data-skip-pjax="true"
 rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 OF-1374

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/master/LICENSE.txt"
data-name="master"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 master

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/of-115-inbound-3.10/LICENSE.txt"
data-name="of-115-inbound-3.10"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 of-115-inbound-3.10

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/of810/LICENSE.txt"
data-name="of810"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 of810

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/blob/refactor-connectionmanagement/LICENSE.txt"

```

```

 data-name="refactor-connectionmanagement"
 data-skip-pjax="true"
 rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 refactor-connectionmanagement

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/igniterealtime/Openfire/blob/revert-860-hazelcast-startup-delay/LICENSE.txt"
 data-name="revert-860-hazelcast-startup-delay"
 data-skip-pjax="true"
 rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 revert-860-hazelcast-startup-delay

</div>

 <div class="select-menu-no-results">Nothing to show</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
 <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/igniterealtime/Openfire/tree/wildfire_3_2_4/LICENSE.txt"
 data-name="wildfire_3_2_4"
 data-skip-pjax="true"
 rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_4

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/igniterealtime/Openfire/tree/wildfire_3_2_3/LICENSE.txt"
 data-name="wildfire_3_2_3"
 data-skip-pjax="true"
 rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_3

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_2_2/LICENSE.txt"
data-name="wildfire_3_2_2"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_2_1/LICENSE.txt"
data-name="wildfire_3_2_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_2_0/LICENSE.txt"
data-name="wildfire_3_2_0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_2_0_rc2/LICENSE.txt"
data-name="wildfire_3_2_0_rc2"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_0_rc2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_2_0_rc/LICENSE.txt"
data-name="wildfire_3_2_0_rc"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_0_rc

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_2_0_beta/LICENSE.txt"
data-name="wildfire_3_2_0_beta"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_2_0_beta

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_1_1/LICENSE.txt"
data-name="wildfire_3_1_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_1_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_1_0/LICENSE.txt"
data-name="wildfire_3_1_0"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_1_0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_1_0_beta_2/LICENSE.txt"
data-name="wildfire_3_1_0_beta_2"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_1_0_beta_2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_1_0_beta/LICENSE.txt"
data-name="wildfire_3_1_0_beta"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_1_0_beta

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_3_0_1/LICENSE.txt"
data-name="wildfire_3_0_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_0_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="wildfire_3_0_0"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_0_0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="wildfire_3_0_0_beta"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_3_0_0_beta

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_6_2/LICENSE.txt"
data-name="wildfire_2_6_2"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_6_2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_6_1/LICENSE.txt"
data-name="wildfire_2_6_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_6_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_6_0/LICENSE.txt"
data-name="wildfire_2_6_0"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_6_0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_5_1/LICENSE.txt"
data-name="wildfire_2_5_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_5_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_5_0/LICENSE.txt"
data-name="wildfire_2_5_0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_5_0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_4_4/LICENSE.txt"
data-name="wildfire_2_4_4"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_4_4

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_4_3/LICENSE.txt"
data-name="wildfire_2_4_3"
data-skip-pjax="true"
rel="nofollow">

```



```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_4_3

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_4_2/LICENSE.txt"
data-name="wildfire_2_4_2"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_4_2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_4_1/LICENSE.txt"
data-name="wildfire_2_4_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_4_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/wildfire_2_4_0/LICENSE.txt"
data-name="wildfire_2_4_0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 wildfire_2_4_0

 <a class="select-menu-item js-navigation-item js-navigation-open selected"
href="/igniterealtime/Openfire/tree/v4.2.3/LICENSE.txt"
data-name="v4.2.3"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.2.3

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.2.2/LICENSE.txt"
data-name="v4.2.2"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.2.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.2.1/LICENSE.txt"
data-name="v4.2.1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.2.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v4.2.0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.2.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.2.0beta/LICENSE.txt"
data-name="v4.2.0beta"
data-skip-pjax="true"
rel="nofollow">

```

```
<svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.2.0beta

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.6/LICENSE.txt"
data-name="v4.1.6"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.6

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.5/LICENSE.txt"
data-name="v4.1.5"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.5

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.4/LICENSE.txt"
data-name="v4.1.4"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.4

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.3/LICENSE.txt"
data-name="v4.1.3"
data-skip-pjax="true"
rel="nofollow">
```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.3

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.2/LICENSE.txt"
data-name="v4.1.2"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.1/LICENSE.txt"
data-name="v4.1.1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.0/LICENSE.txt"
data-name="v4.1.0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.1.0beta/LICENSE.txt"
data-name="v4.1.0beta"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.1.0beta

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v4.0.4/LICENSE.txt"
data-name="v4.0.4"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.0.4

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v4.0.3"
data-skip-pjax="true"
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.0.3

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5z"/></svg>

 v4.0.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
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```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v4.0.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v4.0.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
rel="nofollow">
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5z"/></svg>

 v4.0.0.beta

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.10.3

 <a class="select-menu-item js-navigation-item js-navigation-open "
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```

```

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5z"/></svg>

 v3.10.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.10.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.10.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.9.3

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
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```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.9.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.9.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.9.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.8.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v3.8.1"
data-skip-pjax="true"
rel="nofollow">

```



```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.8.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v3.8.0"
data-skip-pjax="true"
rel="nofollow">
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.8.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v3.7.1"
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rel="nofollow">
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.7.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v3.7.0"
data-skip-pjax="true"
rel="nofollow">
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.7.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v3.7.0.beta"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
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5z"/></svg>

 v3.7.0.beta

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.6.4

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.6.3

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.6.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/v3.6.1/LICENSE.txt"
data-name="v3.6.1"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.6.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.6.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.6.0a

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-name="v3.5.2"
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5z"/></svg>

 v3.5.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.5.1

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5z"/></svg>

 v3.5.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.4.5

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.4.4

 <a class="select-menu-item js-navigation-item js-navigation-open "
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```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.4.3

 <a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
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5z"/></svg>

 v3.4.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.4.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.4.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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```

```

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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 v3.3.3

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.3.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.3.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 v3.3.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
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rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 openfire_3_4_0_pre_PEP

<a class="select-menu-item js-navigation-item js-navigation-open "
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5z"/></svg>

 openfire_3_4_0_beta2

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data-skip-pjax="true"
rel="nofollow">
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5z"/></svg>

 openfire_3_4_0_beta1

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data-skip-pjax="true"
rel="nofollow">
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height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 openfire_3_3_0_beta1

<a class="select-menu-item js-navigation-item js-navigation-open "
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data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
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5z"/></svg>

 openfire_3_3_0_alpha1

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/liveassistant_2_3_1/LICENSE.txt"
data-name="liveassistant_2_3_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 liveassistant_2_3_1

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/liveassistant_2_2_0/LICENSE.txt"
data-name="liveassistant_2_2_0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 liveassistant_2_2_0

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/live_assistant_2_1_0/LICENSE.txt"
data-name="live_assistant_2_1_0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 live_assistant_2_1_0

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_4_0-pre-rename/LICENSE.txt"
data-name="jive_messenger_2_4_0-pre-rename"
data-skip-pjax="true"
rel="nofollow">

```



```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_4_0-pre-rename

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_4_0-pre-project-rename/LICENSE.txt"
data-name="jive_messenger_2_4_0-pre-project-rename"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_4_0-pre-project-rename

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_3_1/LICENSE.txt"
data-name="jive_messenger_2_3_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_3_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_3_0/LICENSE.txt"
data-name="jive_messenger_2_3_0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_3_0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_3_0_beta_2/LICENSE.txt"
data-name="jive_messenger_2_3_0_beta_2"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_3_0_beta_2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_3_0_beta_1/LICENSE.txt"
data-name="jive_messenger_2_3_0_beta_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_3_0_beta_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_3_0_alpha_1/LICENSE.txt"
data-name="jive_messenger_2_3_0_alpha_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_3_0_alpha_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_2_0/LICENSE.txt"
data-name="jive_messenger_2_2_0"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_2_0

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_2_0_beta_2/LICENSE.txt"
data-name="jive_messenger_2_2_0_beta_2"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_2_0_beta_2

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_2_0_beta_1/LICENSE.txt"
data-name="jive_messenger_2_2_0_beta_1"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_2_0_beta_1

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_2_0_RC/LICENSE.txt"
data-name="jive_messenger_2_2_0_RC"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_2_0_RC

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_1_5/LICENSE.txt"
data-name="jive_messenger_2_1_5"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_1_5

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_1_4/LICENSE.txt"
data-name="jive_messenger_2_1_4"
data-skip-pjax="true"
rel="nofollow">

```

```

 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_1_4

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_1_3/LICENSE.txt"
data-name="jive_messenger_2_1_3"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_1_3

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/igniterealtime/Openfire/tree/jive_messenger_2_1_2/LICENSE.txt"
data-name="jive_messenger_2_1_2"
data-skip-pjax="true"
rel="nofollow">
 <svg class="octicon octicon-check select-menu-item-icon" viewBox="0 0 12 16" version="1.1" width="12"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12
5z"/></svg>

 jive_messenger_2_1_2

</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

</div>
</div>
</div>

<div class="BtnGroup float-right">
 <a href="/igniterealtime/Openfire/find/v4.2.3"
class="js-pjax-capture-input btn btn-sm BtnGroup-item"
data-pjax
data-hotkey="t">
 Find file

 <clipboard-copy for="blob-path" class="btn btn-sm BtnGroup-item">

```

```

 Copy path
 </clipboard-copy>
</div>
<div id="blob-path" class="breadcrumb">
 <a data-pjax="true"
href="/igniterealtime/Openfire/tree/v4.2.3">Openfire<strong class="final-path">LICENSE.txt
</div>
</div>

<div class="Box mb-3 clearfix">
<div class="col-6 float-left p-2 pt-3">
 <svg height="32" class="octicon octicon-law license-summary-octicon float-left mr-2" viewBox="0 0 14 16"
version="1.1" width="28" aria-hidden="true"><path fill-rule="evenodd" d="M7 4c-.83 0-1.5-.67-1.5-1.5S6.17 1 7
1s1.5.67 1.5 1.5S7.83 4 7 4zm7 6c0 1.11-.89 2-2 2h-1c-1.11 0-2-.89-2-2l2-4h-1c-.55 0-1-.45-1-1H8v8c.42 0 1 .45 1
1h1c.42 0 1 .45 1 1H3c0-.55.58-1 1-1h1c0-.55.58-1 1-1h.03L6 5H5c0 .55-.45 1-1 1H3l2 4c0 1.11-.89 2-2 2H2c-
1.11 0-2-.89-2-2l2-4H1V5h3c0-.55.45-1 1-1h4c.55 0 1 .45 1 1h3v1h-1l2 4zM2.5 7L1 10h3L2.5 7zM13 10l-1.5-3-
1.5 3h3z"/></svg>
 <p class="text-small text-gray mb-0 lh-condensed-ultra">
 igniterealtime/Openfire is licensed under the
 </p>
 <h4 class="mt-0 mb-2">Apache License 2.0</h4>
 <p class="mb-0 text-gray text-small pr-2">A permissive license whose main conditions require preservation of
copyright and license notices. Contributors provide an express grant of patent rights. Licensed works, modifications,
and larger works may be distributed under different terms and without source code.</p>
</div>

<div class="col-6 float-left p-2">
 <div class="one-third column">
 <h5 class="mt-1 mb-2">Permissions</h5>
 <ul class="list-style-none">
 <li class="text-small pl-3">
 <svg width="13" class="octicon octicon-check rule-type-permissions ml-n3 v-align-middle" viewBox="0 0
12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 4-4 1.5-1.5L4
10l6.5-6.5L12 5z"/></svg>
 <span class="tooltipped tooltipped-se tooltipped-multiline v-align-middle"
aria-label="This software and derivatives may be used for commercial purposes.">
 Commercial use

 <li class="text-small pl-3">
 <svg width="13" class="octicon octicon-check rule-type-permissions ml-n3 v-align-middle" viewBox="0 0
12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 4-4 1.5-1.5L4
10l6.5-6.5L12 5z"/></svg>
 <span class="tooltipped tooltipped-se tooltipped-multiline v-align-middle"
aria-label="This software may be modified.">
 Modification

 </div>

```

```


<li class="text-small pl-3">
 <svg width="13" class="octicon octicon-check rule-type-permissions ml-n3 v-align-middle" viewBox="0 0
12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4
10l6.5-6.5L12 5z"/></svg>
 <span class="tooltipped tooltipped-se tooltipped-multiline v-align-middle"
 aria-label="This software may be distributed.">
 Distribution

<li class="text-small pl-3">
 <svg width="13" class="octicon octicon-check rule-type-permissions ml-n3 v-align-middle" viewBox="0 0
12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4
10l6.5-6.5L12 5z"/></svg>
 <span class="tooltipped tooltipped-se tooltipped-multiline v-align-middle"
 aria-label="This license provides an express grant of patent rights from contributors.">
 Patent use

<li class="text-small pl-3">
 <svg width="13" class="octicon octicon-check rule-type-permissions ml-n3 v-align-middle" viewBox="0 0
12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4
10l6.5-6.5L12 5z"/></svg>
 <span class="tooltipped tooltipped-se tooltipped-multiline v-align-middle"
 aria-label="This software may be used and modified in private.">
 Private use

</div>
<div class="one-third column">
 <h5 class="mt-1 mb-2">Limitations</h5>
 <ul class="list-style-none">
 <li class="text-small pl-3">
 <svg width="13" class="octicon octicon-x rule-type-limitations ml-n3 v-align-middle" viewBox="0 0 12
16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6
9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
 <span class="tooltipped tooltipped-s tooltipped-multiline v-align-middle"
 aria-label="This license explicitly states that it does NOT grant trademark rights, even though licenses
without such a statement probably do not grant any implicit trademark rights.">
 Trademark use

 <li class="text-small pl-3">
 <svg width="13" class="octicon octicon-x rule-type-limitations ml-n3 v-align-middle" viewBox="0 0 12
16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6
9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
 <span class="tooltipped tooltipped-s tooltipped-multiline v-align-middle"

```

```

 aria-label="This license includes a limitation of liability.">
 Liability

<li class="text-small pl-3">
 <svg width="13" class="octicon octicon-x rule-type-limitations ml-n3 v-align-middle" viewBox="0 0 12
16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6
9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
 <span class="tooltipped tooltipped-s tooltipped-multiline v-align-middle"
 aria-label="The license explicitly states that it does NOT provide any warranty.">
 Warranty

</div>
<div class="one-third column">
 <h5 class="mt-1 mb-2">Conditions</h5>
 <ul class="list-style-none">
 <li class="text-small pl-3">
 <svg width="13" class="octicon octicon-info rule-type-conditions ml-n3 v-align-middle" viewBox="0 0 14
16" version="1.1" height="14" aria-hidden="true"><path fill-rule="evenodd" d="M6.3 5.69a.942.942 0 0 1-.28-
.7c0-.28.09-.52.28-.719-.18.42-.28.7-.28.28 0 .52.09.7.28.18.19.28.42.28.7 0 .28-.09.52-.28.7a1 1 0 0 1-.7.3c-.28 0-
.52-.11-.7-.3zM8 7.99c-.02-.25-.11-.48-.31-.69-.2-.19-.42-.3-.69-.31H6c-.27.02-.48.13-.69.31-.2.2-.3.44-
.31.69h1v3c.02.27.11.5.31.69.2.2.42.31.69.31h1c.27 0 .48-.11.69-.31.2-.19.3-.42.31-.69H8V7.98v.01zM7 2.3c-3.14
0-5.7 2.54-5.7 5.68 0 3.14 2.56 5.7 5.7 5.7s5.7-2.55 5.7-5.7c0-3.15-2.56-5.69-5.7-5.69v.01zM7 .98c3.86 0 7 3.14 7
7s-3.14 7-7 7-7-3.12-7-7 3.14-7 7-7z"/></svg>
 <span class="tooltipped tooltipped-sw tooltipped-multiline v-align-middle"
 aria-label="A copy of the license and copyright notice must be included with the software.">
 License and copyright notice

<li class="text-small pl-3">
 <svg width="13" class="octicon octicon-info rule-type-conditions ml-n3 v-align-middle" viewBox="0 0 14
16" version="1.1" height="14" aria-hidden="true"><path fill-rule="evenodd" d="M6.3 5.69a.942.942 0 0 1-.28-
.7c0-.28.09-.52.28-.719-.18.42-.28.7-.28.28 0 .52.09.7.28.18.19.28.42.28.7 0 .28-.09.52-.28.7a1 1 0 0 1-.7.3c-.28 0-
.52-.11-.7-.3zM8 7.99c-.02-.25-.11-.48-.31-.69-.2-.19-.42-.3-.69-.31H6c-.27.02-.48.13-.69.31-.2.2-.3.44-
.31.69h1v3c.02.27.11.5.31.69.2.2.42.31.69.31h1c.27 0 .48-.11.69-.31.2-.19.3-.42.31-.69H8V7.98v.01zM7 2.3c-3.14
0-5.7 2.54-5.7 5.68 0 3.14 2.56 5.7 5.7 5.7s5.7-2.55 5.7-5.7c0-3.15-2.56-5.69-5.7-5.69v.01zM7 .98c3.86 0 7 3.14 7
7s-3.14 7-7 7-7-3.12-7-7 3.14-7 7-7z"/></svg>
 <span class="tooltipped tooltipped-sw tooltipped-multiline v-align-middle"
 aria-label="Changes made to the code must be documented.">
 State changes

</div>
</div>

```

```
<p class="text-gray text-small mb-0 border-top col-12 float-left p-2">
```

```
 This is not legal advice.
```

```
 Learn more about repository licenses.
```

```
</p>
```

```
</div>
```

```
<include-fragment src="/igniterealtime/Openfire/contributors/v4.2.3/LICENSE.txt" class="commit-tease commit-loader">
```

```
 <div>
```

```
 Fetching contributors…
```

```
 </div>
```

```
<div class="commit-tease-contributors">
```

```

```

```
 Cannot retrieve contributors at this time
```

```
</div>
```

```
</include-fragment>
```

```
<div class="file ">
```

```
 <div class="file-header">
```

```
<div class="file-actions">
```

```
<div class="BtnGroup">
```

```
 Raw
```

```
 Blame
```

```
 History
```

```
</div>
```

```
<button class="btn-octicon disabled tooltiped tooltiped-nw"
```

```
 type="button"
```

```
 disabled
```

```
 aria-label="You must be on a branch to open this file in GitHub Desktop">
```

```
 <svg class="octicon octicon-device-desktop" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M15 2H1c-.55 0-1 .45-1 1v9c0 .55.45 1 1 1h5.34c-.25.61-.86 1.39-2.34 2h8c-1.48-.61-2.09-1.39-2.34-2H15c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm0 9H1V3h14v8z"/></svg>
```

```
 </button>
```

```
<button type="button" class="btn-octicon disabled tooltiped tooltiped-nw"
```

```
 aria-label="You must be signed in to make or propose changes">
```

```
 <svg class="octicon octicon-pencil" viewBox="0 0 14 16" version="1.1" width="14" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M0 12v3h318-8-3-3-8 8zm3 2H1v-2h1v1h1v1zm10.3-9.3L12 6 9
```



```
311.3-1.3a.996.996 0 0 1 1.41 011.59 1.59c.39.39.39 1.02 0 1.41z"/></svg>
</button>
<button type="button" class="btn-octicon btn-octicon-danger disabled tooltiped tooltiped-nw"
 aria-label="You must be signed in to make or propose changes">
 <svg class="octicon octicon-trashcan" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M11 2H9c0-.55-.45-1-1-1H5c-.55 0-1 .45-1 1H2c-.55 0-1 .45-1 1v1c0
.55.45 1 1 1v9c0 .55.45 1 1 1h7c.55 0 1-.45 1-1V5c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm-1
12H3V5h1v8h1V5h1v8h1V5h1v8h1V5h1v9zm1-10H2V3h9v1z"/></svg>
</button>
</div>
```

```
<div class="file-info">
 202 lines (169 sloc)

 11.1 KB
</div>
</div>
```

```
<div itemprop="text" class="blob-wrapper data type-text ">
 <table class="highlight tab-size js-file-line-container" data-tab-size="4">
 <tr>
 <td id="L1" class="blob-num js-line-number" data-line-number="1"></td>
 <td id="LC1" class="blob-code blob-code-inner js-file-line"> Apache License</td>
 </tr>
 <tr>
 <td id="L2" class="blob-num js-line-number" data-line-number="2"></td>
 <td id="LC2" class="blob-code blob-code-inner js-file-line"> Version 2.0, January 2004</td>
 </tr>
 <tr>
 <td id="L3" class="blob-num js-line-number" data-line-number="3"></td>
 <td id="LC3" class="blob-code blob-code-inner js-file-line">
 http://www.apache.org/licenses/</td>
 </tr>
 <tr>
 <td id="L4" class="blob-num js-line-number" data-line-number="4"></td>
 <td id="LC4" class="blob-code blob-code-inner js-file-line">
 </td>
 </tr>
 <tr>
 <td id="L5" class="blob-num js-line-number" data-line-number="5"></td>
 <td id="LC5" class="blob-code blob-code-inner js-file-line"> TERMS AND CONDITIONS FOR USE,
 REPRODUCTION, AND DISTRIBUTION</td>
 </tr>
 <tr>
 <td id="L6" class="blob-num js-line-number" data-line-number="6"></td>
 <td id="LC6" class="blob-code blob-code-inner js-file-line">
```

```

</td>
</tr>
<tr>
 <td id="L7" class="blob-num js-line-number" data-line-number="7"></td>
 <td id="LC7" class="blob-code blob-code-inner js-file-line"> 1. Definitions.</td>
</tr>
<tr>
 <td id="L8" class="blob-num js-line-number" data-line-number="8"></td>
 <td id="LC8" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L9" class="blob-num js-line-number" data-line-number="9"></td>
 <td id="LC9" class="blob-code blob-code-inner js-file-line"> "License" shall mean the terms and conditions
for use, reproduction,</td>
</tr>
<tr>
 <td id="L10" class="blob-num js-line-number" data-line-number="10"></td>
 <td id="LC10" class="blob-code blob-code-inner js-file-line"> and distribution as defined by Sections 1
through 9 of this document.</td>
</tr>
<tr>
 <td id="L11" class="blob-num js-line-number" data-line-number="11"></td>
 <td id="LC11" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L12" class="blob-num js-line-number" data-line-number="12"></td>
 <td id="LC12" class="blob-code blob-code-inner js-file-line"> "Licensor" shall mean the copyright owner or
entity authorized by</td>
</tr>
<tr>
 <td id="L13" class="blob-num js-line-number" data-line-number="13"></td>
 <td id="LC13" class="blob-code blob-code-inner js-file-line"> the copyright owner that is granting the
License.</td>
</tr>
<tr>
 <td id="L14" class="blob-num js-line-number" data-line-number="14"></td>
 <td id="LC14" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L15" class="blob-num js-line-number" data-line-number="15"></td>
 <td id="LC15" class="blob-code blob-code-inner js-file-line"> "Legal Entity" shall mean the union of the
acting entity and all</td>
</tr>
<tr>
 <td id="L16" class="blob-num js-line-number" data-line-number="16"></td>

```

<p>&lt;td id="LC16" class="blob-code blob-code-inner js-file-line"&gt; other entities that control, are controlled by, or are under common&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L17" class="blob-num js-line-number" data-line-number="17"></td>	
<p>&lt;td id="LC17" class="blob-code blob-code-inner js-file-line"&gt; control with that entity. For the purposes of this definition,&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L18" class="blob-num js-line-number" data-line-number="18"></td>	
<p>&lt;td id="LC18" class="blob-code blob-code-inner js-file-line"&gt; "control" means (i) the power, direct or indirect, to cause the&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L19" class="blob-num js-line-number" data-line-number="19"></td>	
<p>&lt;td id="LC19" class="blob-code blob-code-inner js-file-line"&gt; direction or management of such entity, whether by contract or&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L20" class="blob-num js-line-number" data-line-number="20"></td>	
<p>&lt;td id="LC20" class="blob-code blob-code-inner js-file-line"&gt; otherwise, or (ii) ownership of fifty percent (50%) or more of the&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L21" class="blob-num js-line-number" data-line-number="21"></td>	
<p>&lt;td id="LC21" class="blob-code blob-code-inner js-file-line"&gt; outstanding shares, or (iii) beneficial ownership of such entity.&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L22" class="blob-num js-line-number" data-line-number="22"></td>	
<p>&lt;td id="LC22" class="blob-code blob-code-inner js-file-line"&gt;</p>	
</td>	
</tr>	
<tr>	
<td id="L23" class="blob-num js-line-number" data-line-number="23"></td>	
<p>&lt;td id="LC23" class="blob-code blob-code-inner js-file-line"&gt; "You" (or "Your") shall mean an individual or Legal Entity&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L24" class="blob-num js-line-number" data-line-number="24"></td>	
<p>&lt;td id="LC24" class="blob-code blob-code-inner js-file-line"&gt; exercising permissions granted by this License.&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L25" class="blob-num js-line-number" data-line-number="25"></td>	
<td id="LC25" class="blob-code blob-code-inner js-file-line">	
</td>	
</tr>	

<pre> &lt;tr&gt;   &lt;td id="L26" class="blob-num js-line-number" data-line-number="26"&gt;&lt;/td&gt;   &lt;td id="LC26" class="blob-code blob-code-inner js-file-line"&gt;    "Source" form shall mean the preferred form for making modifications,&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L27" class="blob-num js-line-number" data-line-number="27"&gt;&lt;/td&gt;   &lt;td id="LC27" class="blob-code blob-code-inner js-file-line"&gt;    including but not limited to software source code, documentation&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L28" class="blob-num js-line-number" data-line-number="28"&gt;&lt;/td&gt;   &lt;td id="LC28" class="blob-code blob-code-inner js-file-line"&gt;    source, and configuration files.&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L29" class="blob-num js-line-number" data-line-number="29"&gt;&lt;/td&gt;   &lt;td id="LC29" class="blob-code blob-code-inner js-file-line"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L30" class="blob-num js-line-number" data-line-number="30"&gt;&lt;/td&gt;   &lt;td id="LC30" class="blob-code blob-code-inner js-file-line"&gt;    "Object" form shall mean any form resulting from mechanical&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L31" class="blob-num js-line-number" data-line-number="31"&gt;&lt;/td&gt;   &lt;td id="LC31" class="blob-code blob-code-inner js-file-line"&gt;    transformation or translation of a Source form, including but&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L32" class="blob-num js-line-number" data-line-number="32"&gt;&lt;/td&gt;   &lt;td id="LC32" class="blob-code blob-code-inner js-file-line"&gt;    not limited to compiled object code, generated documentation,&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L33" class="blob-num js-line-number" data-line-number="33"&gt;&lt;/td&gt;   &lt;td id="LC33" class="blob-code blob-code-inner js-file-line"&gt;    and conversions to other media types.&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L34" class="blob-num js-line-number" data-line-number="34"&gt;&lt;/td&gt;   &lt;td id="LC34" class="blob-code blob-code-inner js-file-line"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt;   &lt;td id="L35" class="blob-num js-line-number" data-line-number="35"&gt;&lt;/td&gt;   &lt;td id="LC35" class="blob-code blob-code-inner js-file-line"&gt;    "Work" shall mean the work of authorship, whether in Source or&lt;/td&gt; &lt;/tr&gt; </pre>	<pre> "Source" form shall mean the preferred form for making modifications,&lt;/td&gt; including but not limited to software source code, documentation&lt;/td&gt; source, and configuration files.&lt;/td&gt; &lt;/td&gt; "Object" form shall mean any form resulting from mechanical&lt;/td&gt; transformation or translation of a Source form, including but&lt;/td&gt; not limited to compiled object code, generated documentation,&lt;/td&gt; and conversions to other media types.&lt;/td&gt; &lt;/td&gt; "Work" shall mean the work of authorship, whether in Source or&lt;/td&gt; </pre>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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<tr>
 <td id="L36" class="blob-num js-line-number" data-line-number="36"></td>
 <td id="LC36" class="blob-code blob-code-inner js-file-line"> Object form, made available under the
License, as indicated by a</td>
</tr>
<tr>
 <td id="L37" class="blob-num js-line-number" data-line-number="37"></td>
 <td id="LC37" class="blob-code blob-code-inner js-file-line"> copyright notice that is included in or
attached to the work</td>
</tr>
<tr>
 <td id="L38" class="blob-num js-line-number" data-line-number="38"></td>
 <td id="LC38" class="blob-code blob-code-inner js-file-line"> (an example is provided in the Appendix
below).</td>
</tr>
<tr>
 <td id="L39" class="blob-num js-line-number" data-line-number="39"></td>
 <td id="LC39" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L40" class="blob-num js-line-number" data-line-number="40"></td>
 <td id="LC40" class="blob-code blob-code-inner js-file-line"> "Derivative Works" shall mean any work,
whether in Source or Object</td>
</tr>
<tr>
 <td id="L41" class="blob-num js-line-number" data-line-number="41"></td>
 <td id="LC41" class="blob-code blob-code-inner js-file-line"> form, that is based on (or derived from) the
Work and for which the</td>
</tr>
<tr>
 <td id="L42" class="blob-num js-line-number" data-line-number="42"></td>
 <td id="LC42" class="blob-code blob-code-inner js-file-line"> editorial revisions, annotations, elaborations,
or other modifications</td>
</tr>
<tr>
 <td id="L43" class="blob-num js-line-number" data-line-number="43"></td>
 <td id="LC43" class="blob-code blob-code-inner js-file-line"> represent, as a whole, an original work of
authorship. For the purposes</td>
</tr>
<tr>
 <td id="L44" class="blob-num js-line-number" data-line-number="44"></td>
 <td id="LC44" class="blob-code blob-code-inner js-file-line"> of this License, Derivative Works shall not
include works that remain</td>
</tr>
<tr>
 <td id="L45" class="blob-num js-line-number" data-line-number="45"></td>
 <td id="LC45" class="blob-code blob-code-inner js-file-line"> separable from, or merely link (or bind by

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name) to the interfaces of,</td>	</tr>
	<tr>
	<td id="L46" class="blob-num js-line-number" data-line-number="46"></td>
	<td id="LC46" class="blob-code blob-code-inner js-file-line"> the Work and Derivative Works
thereof.</td>	
	</tr>
	<tr>
	<td id="L47" class="blob-num js-line-number" data-line-number="47"></td>
	<td id="LC47" class="blob-code blob-code-inner js-file-line">
</td>	
	</tr>
	<tr>
	<td id="L48" class="blob-num js-line-number" data-line-number="48"></td>
	<td id="LC48" class="blob-code blob-code-inner js-file-line"> "Contribution" shall mean any work of
authorship, including</td>	
	</tr>
	<tr>
	<td id="L49" class="blob-num js-line-number" data-line-number="49"></td>
	<td id="LC49" class="blob-code blob-code-inner js-file-line"> the original version of the Work and any
modifications or additions</td>	
	</tr>
	<tr>
	<td id="L50" class="blob-num js-line-number" data-line-number="50"></td>
	<td id="LC50" class="blob-code blob-code-inner js-file-line"> to that Work or Derivative Works thereof,
that is intentionally</td>	
	</tr>
	<tr>
	<td id="L51" class="blob-num js-line-number" data-line-number="51"></td>
	<td id="LC51" class="blob-code blob-code-inner js-file-line"> submitted to Licensor for inclusion in the
Work by the copyright owner</td>	
	</tr>
	<tr>
	<td id="L52" class="blob-num js-line-number" data-line-number="52"></td>
	<td id="LC52" class="blob-code blob-code-inner js-file-line"> or by an individual or Legal Entity
authorized to submit on behalf of</td>	
	</tr>
	<tr>
	<td id="L53" class="blob-num js-line-number" data-line-number="53"></td>
	<td id="LC53" class="blob-code blob-code-inner js-file-line"> the copyright owner. For the purposes of this
definition, "submitted"</td>	
	</tr>
	<tr>
	<td id="L54" class="blob-num js-line-number" data-line-number="54"></td>
	<td id="LC54" class="blob-code blob-code-inner js-file-line"> means any form of electronic, verbal, or
written communication sent</td>	
	</tr>
	<tr>

<td id="L55" class="blob-num js-line-number" data-line-number="55"></td>	
<td id="LC55" class="blob-code blob-code-inner js-file-line">	to the Licensor or its representatives,
	including but not limited to</td>
</tr>	
<tr>	
<td id="L56" class="blob-num js-line-number" data-line-number="56"></td>	
<td id="LC56" class="blob-code blob-code-inner js-file-line">	communication on electronic mailing lists,
	source code control systems,</td>
</tr>	
<tr>	
<td id="L57" class="blob-num js-line-number" data-line-number="57"></td>	
<td id="LC57" class="blob-code blob-code-inner js-file-line">	and issue tracking systems that are managed
	by, or on behalf of, the</td>
</tr>	
<tr>	
<td id="L58" class="blob-num js-line-number" data-line-number="58"></td>	
<td id="LC58" class="blob-code blob-code-inner js-file-line">	Licensor for the purpose of discussing and
	improving the Work, but</td>
</tr>	
<tr>	
<td id="L59" class="blob-num js-line-number" data-line-number="59"></td>	
<td id="LC59" class="blob-code blob-code-inner js-file-line">	excluding communication that is
	conspicuously marked or otherwise</td>
</tr>	
<tr>	
<td id="L60" class="blob-num js-line-number" data-line-number="60"></td>	
<td id="LC60" class="blob-code blob-code-inner js-file-line">	designated in writing by the copyright owner
	as "Not a Contribution."</td>
</tr>	
<tr>	
<td id="L61" class="blob-num js-line-number" data-line-number="61"></td>	
<td id="LC61" class="blob-code blob-code-inner js-file-line">	
	</td>
</tr>	
<tr>	
<td id="L62" class="blob-num js-line-number" data-line-number="62"></td>	
<td id="LC62" class="blob-code blob-code-inner js-file-line">	"Contributor" shall mean Licensor and any
	individual or Legal Entity</td>
</tr>	
<tr>	
<td id="L63" class="blob-num js-line-number" data-line-number="63"></td>	
<td id="LC63" class="blob-code blob-code-inner js-file-line">	on behalf of whom a Contribution has been
	received by Licensor and</td>
</tr>	
<tr>	
<td id="L64" class="blob-num js-line-number" data-line-number="64"></td>	
<td id="LC64" class="blob-code blob-code-inner js-file-line">	subsequently incorporated within the
	Work.</td>

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</tr>
<tr>
 <td id="L65" class="blob-num js-line-number" data-line-number="65"></td>
 <td id="LC65" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L66" class="blob-num js-line-number" data-line-number="66"></td>
 <td id="LC66" class="blob-code blob-code-inner js-file-line"> 2. Grant of Copyright License. Subject to the
terms and conditions of</td>
</tr>
<tr>
 <td id="L67" class="blob-num js-line-number" data-line-number="67"></td>
 <td id="LC67" class="blob-code blob-code-inner js-file-line"> this License, each Contributor hereby grants
to You a perpetual,</td>
</tr>
<tr>
 <td id="L68" class="blob-num js-line-number" data-line-number="68"></td>
 <td id="LC68" class="blob-code blob-code-inner js-file-line"> worldwide, non-exclusive, no-charge,
royalty-free, irrevocable</td>
</tr>
<tr>
 <td id="L69" class="blob-num js-line-number" data-line-number="69"></td>
 <td id="LC69" class="blob-code blob-code-inner js-file-line"> copyright license to reproduce, prepare
Derivative Works of,</td>
</tr>
<tr>
 <td id="L70" class="blob-num js-line-number" data-line-number="70"></td>
 <td id="LC70" class="blob-code blob-code-inner js-file-line"> publicly display, publicly perform,
sublicense, and distribute the</td>
</tr>
<tr>
 <td id="L71" class="blob-num js-line-number" data-line-number="71"></td>
 <td id="LC71" class="blob-code blob-code-inner js-file-line"> Work and such Derivative Works in Source
or Object form.</td>
</tr>
<tr>
 <td id="L72" class="blob-num js-line-number" data-line-number="72"></td>
 <td id="LC72" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L73" class="blob-num js-line-number" data-line-number="73"></td>
 <td id="LC73" class="blob-code blob-code-inner js-file-line"> 3. Grant of Patent License. Subject to the terms
and conditions of</td>
</tr>
<tr>
 <td id="L74" class="blob-num js-line-number" data-line-number="74"></td>

```



<p>&lt;td id="LC74" class="blob-code blob-code-inner js-file-line"&gt; this License, each Contributor hereby grants to You a perpetual,&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L75" class="blob-num js-line-number" data-line-number="75"></td>	
<p>&lt;td id="LC75" class="blob-code blob-code-inner js-file-line"&gt; worldwide, non-exclusive, no-charge, royalty-free, irrevocable&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L76" class="blob-num js-line-number" data-line-number="76"></td>	
<p>&lt;td id="LC76" class="blob-code blob-code-inner js-file-line"&gt; (except as stated in this section) patent license to make, have made,&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L77" class="blob-num js-line-number" data-line-number="77"></td>	
<p>&lt;td id="LC77" class="blob-code blob-code-inner js-file-line"&gt; use, offer to sell, sell, import, and otherwise transfer the Work,&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L78" class="blob-num js-line-number" data-line-number="78"></td>	
<p>&lt;td id="LC78" class="blob-code blob-code-inner js-file-line"&gt; where such license applies only to those patent claims licensable&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L79" class="blob-num js-line-number" data-line-number="79"></td>	
<p>&lt;td id="LC79" class="blob-code blob-code-inner js-file-line"&gt; by such Contributor that are necessarily infringed by their&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L80" class="blob-num js-line-number" data-line-number="80"></td>	
<p>&lt;td id="LC80" class="blob-code blob-code-inner js-file-line"&gt; Contribution(s) alone or by combination of their Contribution(s)&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L81" class="blob-num js-line-number" data-line-number="81"></td>	
<p>&lt;td id="LC81" class="blob-code blob-code-inner js-file-line"&gt; with the Work to which such Contribution(s) was submitted. If You&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L82" class="blob-num js-line-number" data-line-number="82"></td>	
<p>&lt;td id="LC82" class="blob-code blob-code-inner js-file-line"&gt; institute patent litigation against any entity (including a&lt;/td&gt;</p>	
</tr>	
<tr>	
<td id="L83" class="blob-num js-line-number" data-line-number="83"></td>	
<p>&lt;td id="LC83" class="blob-code blob-code-inner js-file-line"&gt; cross-claim or counterclaim in a lawsuit) alleging that the Work&lt;/td&gt;</p>	
</tr>	

<tr>	<td id="L84" class="blob-num js-line-number" data-line-number="84"></td>	or a Contribution incorporated within the Work constitutes direct</td>
</tr>	<tr>	<td id="L85" class="blob-num js-line-number" data-line-number="85"></td>
</tr>	<td id="LC85" class="blob-code blob-code-inner js-file-line">	or contributory patent infringement, then any patent licenses</td>
</tr>	<tr>	<td id="L86" class="blob-num js-line-number" data-line-number="86"></td>
</tr>	<td id="LC86" class="blob-code blob-code-inner js-file-line">	granted to You under this License for that Work shall terminate</td>
</tr>	<tr>	<td id="L87" class="blob-num js-line-number" data-line-number="87"></td>
</tr>	<td id="LC87" class="blob-code blob-code-inner js-file-line">	as of the date such litigation is filed.</td>
</tr>	<tr>	<td id="L88" class="blob-num js-line-number" data-line-number="88"></td>
</tr>	<td id="LC88" class="blob-code blob-code-inner js-file-line">	</td>
</tr>	<tr>	<td id="L89" class="blob-num js-line-number" data-line-number="89"></td>
</tr>	<td id="LC89" class="blob-code blob-code-inner js-file-line">	4. Redistribution. You may reproduce and distribute copies of the</td>
</tr>	<tr>	<td id="L90" class="blob-num js-line-number" data-line-number="90"></td>
</tr>	<td id="LC90" class="blob-code blob-code-inner js-file-line">	Work or Derivative Works thereof in any medium, with or without</td>
</tr>	<tr>	<td id="L91" class="blob-num js-line-number" data-line-number="91"></td>
</tr>	<td id="LC91" class="blob-code blob-code-inner js-file-line">	modifications, and in Source or Object form, provided that You</td>
</tr>	<tr>	<td id="L92" class="blob-num js-line-number" data-line-number="92"></td>
</tr>	<td id="LC92" class="blob-code blob-code-inner js-file-line">	meet the following conditions:</td>
</tr>	<tr>	<td id="L93" class="blob-num js-line-number" data-line-number="93"></td>
</tr>	<td id="LC93" class="blob-code blob-code-inner js-file-line">	</td>
</tr>	<tr>	<td id="L93" class="blob-num js-line-number" data-line-number="93"></td>
</tr>	<td id="LC93" class="blob-code blob-code-inner js-file-line">	</td>
</tr>	<tr>	<td id="L93" class="blob-num js-line-number" data-line-number="93"></td>
</tr>	<td id="LC93" class="blob-code blob-code-inner js-file-line">	</td>

```

<tr>
 <td id="L94" class="blob-num js-line-number" data-line-number="94"></td>
 <td id="LC94" class="blob-code blob-code-inner js-file-line"> (a) You must give any other recipients of the
Work or</td>
</tr>
<tr>
 <td id="L95" class="blob-num js-line-number" data-line-number="95"></td>
 <td id="LC95" class="blob-code blob-code-inner js-file-line"> Derivative Works a copy of this License;
and</td>
</tr>
<tr>
 <td id="L96" class="blob-num js-line-number" data-line-number="96"></td>
 <td id="LC96" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L97" class="blob-num js-line-number" data-line-number="97"></td>
 <td id="LC97" class="blob-code blob-code-inner js-file-line"> (b) You must cause any modified files to
carry prominent notices</td>
</tr>
<tr>
 <td id="L98" class="blob-num js-line-number" data-line-number="98"></td>
 <td id="LC98" class="blob-code blob-code-inner js-file-line"> stating that You changed the files;
and</td>
</tr>
<tr>
 <td id="L99" class="blob-num js-line-number" data-line-number="99"></td>
 <td id="LC99" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L100" class="blob-num js-line-number" data-line-number="100"></td>
 <td id="LC100" class="blob-code blob-code-inner js-file-line"> (c) You must retain, in the Source form of
any Derivative Works</td>
</tr>
<tr>
 <td id="L101" class="blob-num js-line-number" data-line-number="101"></td>
 <td id="LC101" class="blob-code blob-code-inner js-file-line"> that You distribute, all copyright, patent,
trademark, and</td>
</tr>
<tr>
 <td id="L102" class="blob-num js-line-number" data-line-number="102"></td>
 <td id="LC102" class="blob-code blob-code-inner js-file-line"> attribution notices from the Source form
of the Work,</td>
</tr>
<tr>
 <td id="L103" class="blob-num js-line-number" data-line-number="103"></td>
 <td id="LC103" class="blob-code blob-code-inner js-file-line"> excluding those notices that do not

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pertain to any part of</td>

</tr>

<tr>

<td id="L104" class="blob-num js-line-number" data-line-number="104"></td>

<td id="LC104" class="blob-code blob-code-inner js-file-line"> the Derivative Works; and</td>

</tr>

<tr>

<td id="L105" class="blob-num js-line-number" data-line-number="105"></td>

<td id="LC105" class="blob-code blob-code-inner js-file-line">

</td>

</tr>

<tr>

<td id="L106" class="blob-num js-line-number" data-line-number="106"></td>

<td id="LC106" class="blob-code blob-code-inner js-file-line"> (d) If the Work includes a "NOTICE" text file as part of its</td>

</tr>

<tr>

<td id="L107" class="blob-num js-line-number" data-line-number="107"></td>

<td id="LC107" class="blob-code blob-code-inner js-file-line"> distribution, then any Derivative Works that You distribute must</td>

</tr>

<tr>

<td id="L108" class="blob-num js-line-number" data-line-number="108"></td>

<td id="LC108" class="blob-code blob-code-inner js-file-line"> include a readable copy of the attribution notices contained</td>

</tr>

<tr>

<td id="L109" class="blob-num js-line-number" data-line-number="109"></td>

<td id="LC109" class="blob-code blob-code-inner js-file-line"> within such NOTICE file, excluding those notices that do not</td>

</tr>

<tr>

<td id="L110" class="blob-num js-line-number" data-line-number="110"></td>

<td id="LC110" class="blob-code blob-code-inner js-file-line"> pertain to any part of the Derivative Works, in at least one</td>

</tr>

<tr>

<td id="L111" class="blob-num js-line-number" data-line-number="111"></td>

<td id="LC111" class="blob-code blob-code-inner js-file-line"> of the following places: within a NOTICE text file distributed</td>

</tr>

<tr>

<td id="L112" class="blob-num js-line-number" data-line-number="112"></td>

<td id="LC112" class="blob-code blob-code-inner js-file-line"> as part of the Derivative Works; within the Source form or</td>

</tr>

<tr>

<td id="L113" class="blob-num js-line-number" data-line-number="113"></td>

<pre> &lt;td id="LC113" class="blob-code blob-code-inner js-file-line"&gt; Derivative Works; or,&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L114" class="blob-num js-line-number" data-line-number="114"&gt;&lt;/td&gt; &lt;td id="LC114" class="blob-code blob-code-inner js-file-line"&gt; Derivative Works, if and&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L115" class="blob-num js-line-number" data-line-number="115"&gt;&lt;/td&gt; &lt;td id="LC115" class="blob-code blob-code-inner js-file-line"&gt; normally appear. The contents&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L116" class="blob-num js-line-number" data-line-number="116"&gt;&lt;/td&gt; &lt;td id="LC116" class="blob-code blob-code-inner js-file-line"&gt; purposes only and&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L117" class="blob-num js-line-number" data-line-number="117"&gt;&lt;/td&gt; &lt;td id="LC117" class="blob-code blob-code-inner js-file-line"&gt; Your own attribution&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L118" class="blob-num js-line-number" data-line-number="118"&gt;&lt;/td&gt; &lt;td id="LC118" class="blob-code blob-code-inner js-file-line"&gt; distribute, alongside&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L119" class="blob-num js-line-number" data-line-number="119"&gt;&lt;/td&gt; &lt;td id="LC119" class="blob-code blob-code-inner js-file-line"&gt; from the Work, provided&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L120" class="blob-num js-line-number" data-line-number="120"&gt;&lt;/td&gt; &lt;td id="LC120" class="blob-code blob-code-inner js-file-line"&gt; cannot be construed&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L121" class="blob-num js-line-number" data-line-number="121"&gt;&lt;/td&gt; &lt;td id="LC121" class="blob-code blob-code-inner js-file-line"&gt; as modifying the License.&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td id="L122" class="blob-num js-line-number" data-line-number="122"&gt;&lt;/td&gt; &lt;td id="LC122" class="blob-code blob-code-inner js-file-line"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;/tr&gt; &lt;tr&gt; </pre>	<p>documentation, if provided along with the</p> <p>within a display generated by the</p> <p>wherever such third-party notices</p> <p>of the NOTICE file are for informational</p> <p>do not modify the License. You may add</p> <p>notices within Derivative Works that You</p> <p>or as an addendum to the NOTICE text</p> <p>that such additional attribution notices</p> <p>as modifying the License.&lt;/td&gt;</p>
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<td id="L123" class="blob-num js-line-number" data-line-number="123"></td>
<td id="LC123" class="blob-code blob-code-inner js-file-line"> You may add Your own copyright statement
to Your modifications and</td>
</tr>
<tr>
<td id="L124" class="blob-num js-line-number" data-line-number="124"></td>
<td id="LC124" class="blob-code blob-code-inner js-file-line"> may provide additional or different license
terms and conditions</td>
</tr>
<tr>
<td id="L125" class="blob-num js-line-number" data-line-number="125"></td>
<td id="LC125" class="blob-code blob-code-inner js-file-line"> for use, reproduction, or distribution of
Your modifications, or</td>
</tr>
<tr>
<td id="L126" class="blob-num js-line-number" data-line-number="126"></td>
<td id="LC126" class="blob-code blob-code-inner js-file-line"> for any such Derivative Works as a whole,
provided Your use,</td>
</tr>
<tr>
<td id="L127" class="blob-num js-line-number" data-line-number="127"></td>
<td id="LC127" class="blob-code blob-code-inner js-file-line"> reproduction, and distribution of the Work
otherwise complies with</td>
</tr>
<tr>
<td id="L128" class="blob-num js-line-number" data-line-number="128"></td>
<td id="LC128" class="blob-code blob-code-inner js-file-line"> the conditions stated in this License.</td>
</tr>
<tr>
<td id="L129" class="blob-num js-line-number" data-line-number="129"></td>
<td id="LC129" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
<td id="L130" class="blob-num js-line-number" data-line-number="130"></td>
<td id="LC130" class="blob-code blob-code-inner js-file-line"> 5. Submission of Contributions. Unless You
explicitly state otherwise,</td>
</tr>
<tr>
<td id="L131" class="blob-num js-line-number" data-line-number="131"></td>
<td id="LC131" class="blob-code blob-code-inner js-file-line"> any Contribution intentionally submitted for
inclusion in the Work</td>
</tr>
<tr>
<td id="L132" class="blob-num js-line-number" data-line-number="132"></td>
<td id="LC132" class="blob-code blob-code-inner js-file-line"> by You to the Licensor shall be under the
terms and conditions of</td>
</tr>

```

<tr>  
 <td id="L133" class="blob-num js-line-number" data-line-number="133"></td>  
 <td id="LC133" class="blob-code blob-code-inner js-file-line"> this License, without any additional terms  
or conditions.</td>  
</tr>  
<tr>  
 <td id="L134" class="blob-num js-line-number" data-line-number="134"></td>  
 <td id="LC134" class="blob-code blob-code-inner js-file-line"> Notwithstanding the above, nothing herein  
shall supersede or modify</td>  
</tr>  
<tr>  
 <td id="L135" class="blob-num js-line-number" data-line-number="135"></td>  
 <td id="LC135" class="blob-code blob-code-inner js-file-line"> the terms of any separate license agreement  
you may have executed</td>  
</tr>  
<tr>  
 <td id="L136" class="blob-num js-line-number" data-line-number="136"></td>  
 <td id="LC136" class="blob-code blob-code-inner js-file-line"> with Licensor regarding such  
Contributions.</td>  
</tr>  
<tr>  
 <td id="L137" class="blob-num js-line-number" data-line-number="137"></td>  
 <td id="LC137" class="blob-code blob-code-inner js-file-line">  
</td>  
</tr>  
<tr>  
 <td id="L138" class="blob-num js-line-number" data-line-number="138"></td>  
 <td id="LC138" class="blob-code blob-code-inner js-file-line"> 6. Trademarks. This License does not grant  
permission to use the trade</td>  
</tr>  
<tr>  
 <td id="L139" class="blob-num js-line-number" data-line-number="139"></td>  
 <td id="LC139" class="blob-code blob-code-inner js-file-line"> names, trademarks, service marks, or  
product names of the Licensor,</td>  
</tr>  
<tr>  
 <td id="L140" class="blob-num js-line-number" data-line-number="140"></td>  
 <td id="LC140" class="blob-code blob-code-inner js-file-line"> except as required for reasonable and  
customary use in describing the</td>  
</tr>  
<tr>  
 <td id="L141" class="blob-num js-line-number" data-line-number="141"></td>  
 <td id="LC141" class="blob-code blob-code-inner js-file-line"> origin of the Work and reproducing the  
content of the NOTICE file.</td>  
</tr>  
<tr>  
 <td id="L142" class="blob-num js-line-number" data-line-number="142"></td>  
 <td id="LC142" class="blob-code blob-code-inner js-file-line">

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</td>
</tr>
<tr>
 <td id="L143" class="blob-num js-line-number" data-line-number="143"></td>
 <td id="LC143" class="blob-code blob-code-inner js-file-line"> 7. Disclaimer of Warranty. Unless required by
applicable law or</td>
</tr>
<tr>
 <td id="L144" class="blob-num js-line-number" data-line-number="144"></td>
 <td id="LC144" class="blob-code blob-code-inner js-file-line"> agreed to in writing, Licensor provides the
Work (and each</td>
</tr>
<tr>
 <td id="L145" class="blob-num js-line-number" data-line-number="145"></td>
 <td id="LC145" class="blob-code blob-code-inner js-file-line"> Contributor provides its Contributions) on
an "AS IS" BASIS,</td>
</tr>
<tr>
 <td id="L146" class="blob-num js-line-number" data-line-number="146"></td>
 <td id="LC146" class="blob-code blob-code-inner js-file-line"> WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or</td>
</tr>
<tr>
 <td id="L147" class="blob-num js-line-number" data-line-number="147"></td>
 <td id="LC147" class="blob-code blob-code-inner js-file-line"> implied, including, without limitation, any
warranties or conditions</td>
</tr>
<tr>
 <td id="L148" class="blob-num js-line-number" data-line-number="148"></td>
 <td id="LC148" class="blob-code blob-code-inner js-file-line"> of TITLE, NON-INFRINGEMENT,
MERCHANTABILITY, or FITNESS FOR A</td>
</tr>
<tr>
 <td id="L149" class="blob-num js-line-number" data-line-number="149"></td>
 <td id="LC149" class="blob-code blob-code-inner js-file-line"> PARTICULAR PURPOSE. You are solely
responsible for determining the</td>
</tr>
<tr>
 <td id="L150" class="blob-num js-line-number" data-line-number="150"></td>
 <td id="LC150" class="blob-code blob-code-inner js-file-line"> appropriateness of using or redistributing
the Work and assume any</td>
</tr>
<tr>
 <td id="L151" class="blob-num js-line-number" data-line-number="151"></td>
 <td id="LC151" class="blob-code blob-code-inner js-file-line"> risks associated with Your exercise of
permissions under this License.</td>
</tr>
<tr>

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	<td id="L152" class="blob-num js-line-number" data-line-number="152"></td>
	<td id="LC152" class="blob-code blob-code-inner js-file-line">
	</td>
	</tr>
	<tr>
	<td id="L153" class="blob-num js-line-number" data-line-number="153"></td>
	<td id="LC153" class="blob-code blob-code-inner js-file-line"> 8. Limitation of Liability. In no event and
	under no legal theory,</td>
	</tr>
	<tr>
	<td id="L154" class="blob-num js-line-number" data-line-number="154"></td>
	<td id="LC154" class="blob-code blob-code-inner js-file-line"> whether in tort (including negligence),
	contract, or otherwise,</td>
	</tr>
	<tr>
	<td id="L155" class="blob-num js-line-number" data-line-number="155"></td>
	<td id="LC155" class="blob-code blob-code-inner js-file-line"> unless required by applicable law (such as
	deliberate and grossly</td>
	</tr>
	<tr>
	<td id="L156" class="blob-num js-line-number" data-line-number="156"></td>
	<td id="LC156" class="blob-code blob-code-inner js-file-line"> negligent acts) or agreed to in writing, shall
	any Contributor be</td>
	</tr>
	<tr>
	<td id="L157" class="blob-num js-line-number" data-line-number="157"></td>
	<td id="LC157" class="blob-code blob-code-inner js-file-line"> liable to You for damages, including any
	direct, indirect, special,</td>
	</tr>
	<tr>
	<td id="L158" class="blob-num js-line-number" data-line-number="158"></td>
	<td id="LC158" class="blob-code blob-code-inner js-file-line"> incidental, or consequential damages of any
	character arising as a</td>
	</tr>
	<tr>
	<td id="L159" class="blob-num js-line-number" data-line-number="159"></td>
	<td id="LC159" class="blob-code blob-code-inner js-file-line"> result of this License or out of the use or
	inability to use the</td>
	</tr>
	<tr>
	<td id="L160" class="blob-num js-line-number" data-line-number="160"></td>
	<td id="LC160" class="blob-code blob-code-inner js-file-line"> Work (including but not limited to damages
	for loss of goodwill,</td>
	</tr>
	<tr>
	<td id="L161" class="blob-num js-line-number" data-line-number="161"></td>
	<td id="LC161" class="blob-code blob-code-inner js-file-line"> work stoppage, computer failure or
	malfunction, or any and all</td>

</tr>  
<tr>  
<td id="L162" class="blob-num js-line-number" data-line-number="162"></td>  
<td id="LC162" class="blob-code blob-code-inner js-file-line"> other commercial damages or losses), even  
if such Contributor</td>  
</tr>  
<tr>  
<td id="L163" class="blob-num js-line-number" data-line-number="163"></td>  
<td id="LC163" class="blob-code blob-code-inner js-file-line"> has been advised of the possibility of such  
damages.</td>  
</tr>  
<tr>  
<td id="L164" class="blob-num js-line-number" data-line-number="164"></td>  
<td id="LC164" class="blob-code blob-code-inner js-file-line">  
</td>  
</tr>  
<tr>  
<td id="L165" class="blob-num js-line-number" data-line-number="165"></td>  
<td id="LC165" class="blob-code blob-code-inner js-file-line"> 9. Accepting Warranty or Additional  
Liability. While redistributing</td>  
</tr>  
<tr>  
<td id="L166" class="blob-num js-line-number" data-line-number="166"></td>  
<td id="LC166" class="blob-code blob-code-inner js-file-line"> the Work or Derivative Works thereof, You  
may choose to offer,</td>  
</tr>  
<tr>  
<td id="L167" class="blob-num js-line-number" data-line-number="167"></td>  
<td id="LC167" class="blob-code blob-code-inner js-file-line"> and charge a fee for, acceptance of support,  
warranty, indemnity,</td>  
</tr>  
<tr>  
<td id="L168" class="blob-num js-line-number" data-line-number="168"></td>  
<td id="LC168" class="blob-code blob-code-inner js-file-line"> or other liability obligations and/or rights  
consistent with this</td>  
</tr>  
<tr>  
<td id="L169" class="blob-num js-line-number" data-line-number="169"></td>  
<td id="LC169" class="blob-code blob-code-inner js-file-line"> License. However, in accepting such  
obligations, You may act only</td>  
</tr>  
<tr>  
<td id="L170" class="blob-num js-line-number" data-line-number="170"></td>  
<td id="LC170" class="blob-code blob-code-inner js-file-line"> on Your own behalf and on Your sole  
responsibility, not on behalf</td>  
</tr>  
<tr>  
<td id="L171" class="blob-num js-line-number" data-line-number="171"></td>

```

 <td id="LC171" class="blob-code blob-code-inner js-file-line"> of any other Contributor, and only if You
agree to indemnify,</td>
 </tr>
 <tr>
 <td id="L172" class="blob-num js-line-number" data-line-number="172"></td>
 <td id="LC172" class="blob-code blob-code-inner js-file-line"> defend, and hold each Contributor harmless
for any liability</td>
 </tr>
 <tr>
 <td id="L173" class="blob-num js-line-number" data-line-number="173"></td>
 <td id="LC173" class="blob-code blob-code-inner js-file-line"> incurred by, or claims asserted against, such
Contributor by reason</td>
 </tr>
 <tr>
 <td id="L174" class="blob-num js-line-number" data-line-number="174"></td>
 <td id="LC174" class="blob-code blob-code-inner js-file-line"> of your accepting any such warranty or
additional liability.</td>
 </tr>
 <tr>
 <td id="L175" class="blob-num js-line-number" data-line-number="175"></td>
 <td id="LC175" class="blob-code blob-code-inner js-file-line">
</td>
 </tr>
 <tr>
 <td id="L176" class="blob-num js-line-number" data-line-number="176"></td>
 <td id="LC176" class="blob-code blob-code-inner js-file-line"> END OF TERMS AND CONDITIONS</td>
 </tr>
 <tr>
 <td id="L177" class="blob-num js-line-number" data-line-number="177"></td>
 <td id="LC177" class="blob-code blob-code-inner js-file-line">
</td>
 </tr>
 <tr>
 <td id="L178" class="blob-num js-line-number" data-line-number="178"></td>
 <td id="LC178" class="blob-code blob-code-inner js-file-line"> APPENDIX: How to apply the Apache
License to your work.</td>
 </tr>
 <tr>
 <td id="L179" class="blob-num js-line-number" data-line-number="179"></td>
 <td id="LC179" class="blob-code blob-code-inner js-file-line">
</td>
 </tr>
 <tr>
 <td id="L180" class="blob-num js-line-number" data-line-number="180"></td>
 <td id="LC180" class="blob-code blob-code-inner js-file-line"> To apply the Apache License to your work,
attach the following</td>
 </tr>
 <tr>
 <td id="L181" class="blob-num js-line-number" data-line-number="181"></td>
 <td id="LC181" class="blob-code blob-code-inner js-file-line">
</td>
 </tr>

```

```

<td id="L181" class="blob-num js-line-number" data-line-number="181"></td>
<td id="LC181" class="blob-code blob-code-inner js-file-line"> boilerplate notice, with the fields enclosed
by brackets "{}"</td>
</tr>
<tr>
<td id="L182" class="blob-num js-line-number" data-line-number="182"></td>
<td id="LC182" class="blob-code blob-code-inner js-file-line"> replaced with your own identifying
information. (Don't include
</tr>
<tr>
<td id="L183" class="blob-num js-line-number" data-line-number="183"></td>
<td id="LC183" class="blob-code blob-code-inner js-file-line"> the brackets!) The text should be enclosed
in the appropriate
</tr>
<tr>
<td id="L184" class="blob-num js-line-number" data-line-number="184"></td>
<td id="LC184" class="blob-code blob-code-inner js-file-line"> comment syntax for the file format. We also
recommend that a
</tr>
<tr>
<td id="L185" class="blob-num js-line-number" data-line-number="185"></td>
<td id="LC185" class="blob-code blob-code-inner js-file-line"> file or class name and description of
purpose be included on the
</tr>
<tr>
<td id="L186" class="blob-num js-line-number" data-line-number="186"></td>
<td id="LC186" class="blob-code blob-code-inner js-file-line"> same "printed page" as the copyright notice
for easier
</tr>
<tr>
<td id="L187" class="blob-num js-line-number" data-line-number="187"></td>
<td id="LC187" class="blob-code blob-code-inner js-file-line"> identification within third-party
archives.
</tr>
<tr>
<td id="L188" class="blob-num js-line-number" data-line-number="188"></td>
<td id="LC188" class="blob-code blob-code-inner js-file-line">
</tr>
<tr>
<td id="L189" class="blob-num js-line-number" data-line-number="189"></td>
<td id="LC189" class="blob-code blob-code-inner js-file-line"> Copyright {yyyy} {name of copyright
owner}
</tr>
<tr>
<td id="L190" class="blob-num js-line-number" data-line-number="190"></td>
<td id="LC190" class="blob-code blob-code-inner js-file-line">
</tr>

```

```

</tr>
<tr>
 <td id="L191" class="blob-num js-line-number" data-line-number="191"></td>
 <td id="LC191" class="blob-code blob-code-inner js-file-line"> Licensed under the Apache License, Version
2.0 (the "License");</td>
</tr>
<tr>
 <td id="L192" class="blob-num js-line-number" data-line-number="192"></td>
 <td id="LC192" class="blob-code blob-code-inner js-file-line"> you may not use this file except in
compliance with the License.</td>
</tr>
<tr>
 <td id="L193" class="blob-num js-line-number" data-line-number="193"></td>
 <td id="LC193" class="blob-code blob-code-inner js-file-line"> You may obtain a copy of the License at</td>
</tr>
<tr>
 <td id="L194" class="blob-num js-line-number" data-line-number="194"></td>
 <td id="LC194" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L195" class="blob-num js-line-number" data-line-number="195"></td>
 <td id="LC195" class="blob-code blob-code-inner js-file-line"> http://www.apache.org/licenses/LICENSE-
2.0</td>
</tr>
<tr>
 <td id="L196" class="blob-num js-line-number" data-line-number="196"></td>
 <td id="LC196" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L197" class="blob-num js-line-number" data-line-number="197"></td>
 <td id="LC197" class="blob-code blob-code-inner js-file-line"> Unless required by applicable law or agreed
to in writing, software</td>
</tr>
<tr>
 <td id="L198" class="blob-num js-line-number" data-line-number="198"></td>
 <td id="LC198" class="blob-code blob-code-inner js-file-line"> distributed under the License is distributed on
an "AS IS" BASIS,</td>
</tr>
<tr>
 <td id="L199" class="blob-num js-line-number" data-line-number="199"></td>
 <td id="LC199" class="blob-code blob-code-inner js-file-line"> WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.</td>
</tr>
<tr>
 <td id="L200" class="blob-num js-line-number" data-line-number="200"></td>
 <td id="LC200" class="blob-code blob-code-inner js-file-line"> See the License for the specific language

```

```

governing permissions and</td>
</tr>
<tr>
 <td id="L201" class="blob-num js-line-number" data-line-number="201"></td>
 <td id="LC201" class="blob-code blob-code-inner js-file-line"> limitations under the License.</td>
</tr>
</table>

```

```

<details class="details-reset details-overlay BlobToolbar position-absolute js-file-line-actions dropdown d-none"
aria-hidden="true">
 <summary class="btn-octicon ml-0 px-2 p-0 bg-white border border-gray-dark rounded-1" aria-label="Inline file
action toolbar">
 <svg class="octicon octicon-kebab-horizontal" viewBox="0 0 13 16" version="1.1" width="13" height="16"
aria-hidden="true"><path fill-rule="evenodd" d="M1.5 9a1.5 1.5 0 1 0 0-3 1.5 1.5 0 0 0 0 3zm5 0a1.5 1.5 0 1 0 0-3
1.5 1.5 0 0 0 3zm13 7.5a1.5 1.5 0 1 1-3 0 1.5 1.5 0 0 1 3 0z"/></svg>
 </summary>
 <details-menu>
 <ul class="BlobToolbar-dropdown dropdown-menu dropdown-menu-se mt-2">
 <clipboard-copy role="menuitem" class="dropdown-item" id="js-copy-lines" style="cursor:pointer;" data-
original-text="Copy lines">Copy lines</clipboard-copy>
 <clipboard-copy role="menuitem" class="dropdown-item" id="js-copy-permalink" style="cursor:pointer;"
data-original-text="Copy permalink">Copy permalink</clipboard-copy>
 <a class="dropdown-item js-update-url-with-hash" id="js-view-git-blame" role="menuitem"
href="/igniterealtime/Openfire/blame/64f46292cf130280b5ca7a3ad54bc2fecec01fc6/LICENSE.txt">View git
blame

 </details-menu>
</details>

</div>

</div>

```

```

<details class="details-reset details-overlay details-overlay-dark">
 <summary data-hotkey="l" aria-label="Jump to line"></summary>
 <details-dialog class="Box Box--overlay d-flex flex-column anim-fade-in fast linejump" aria-label="Jump to
line">
 <!-- "" --><!-- </textarea></xmp> --></option></form><form class="js-jump-to-line-form Box-body d-flex"
action="" accept-charset="UTF-8" method="get"><input name="utf8" type="hidden" value="#x2713;" />
 <input class="form-control flex-auto mr-3 linejump-input js-jump-to-line-field" type="text" placeholder="Jump
to line…" aria-label="Jump to line" autofocus>
 <button type="submit" class="btn" data-close-dialog>Go</button>
 </form> </details-dialog>
</details>

```

```

</div>
<div class="modal-backdrop js-touch-events"></div>
</div>

</div>
</div>

</div>

<div class="footer container-lg px-3" role="contentinfo">
<div class="position-relative d-flex flex-justify-between pt-6 pb-2 mt-6 f6 text-gray border-top border-gray-light ">
<ul class="list-style-none d-flex flex-wrap ">
<li class="mr-3">© 2018 GitHub, Inc.
<li class="mr-3"><a data-ga-click="Footer, go to terms, text:terms"
href="https://github.com/site/terms">Terms
<li class="mr-3"><a data-ga-click="Footer, go to privacy, text:privacy"
href="https://github.com/site/privacy">Privacy
<li class="mr-3"><a href="https://help.github.com/articles/github-security/" data-ga-click="Footer, go to
security, text:security">Security
<li class="mr-3"><a href="https://status.github.com/" data-ga-click="Footer, go to status,
text:status">Status
<a data-ga-click="Footer, go to help, text:help" href="https://help.github.com">Help

<a aria-label="Homepage" title="GitHub" class="footer-octicon mr-lg-4" href="https://github.com">
<svg height="24" class="octicon octicon-mark-github" viewBox="0 0 16 16" version="1.1" width="24" aria-
hidden="true"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.4.07.55-.17.55-.38
0-.19-.01-.82-.01-1.49-2.01-3.7-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53.63-.01 1.08.58
1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-
1.02.08-2.12 0 0 .67-.21 2.28.64-1.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08
2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0
.21.15.46.55.38.82.01 3.84 8.01 3.84 8.01 0 0 0 0 16 8c0-4.42-3.58-8-8-8z"/></svg>

<ul class="list-style-none d-flex flex-wrap ">
<li class="mr-3"><a data-ga-click="Footer, go to contact, text:contact"
href="https://github.com/contact">Contact GitHub
<li class="mr-3"><a href="https://github.com/pricing" data-ga-click="Footer, go to Pricing,
text:Pricing">Pricing
<li class="mr-3"><a href="https://developer.github.com" data-ga-click="Footer, go to api,
text:api">API
<li class="mr-3"><a href="https://training.github.com" data-ga-click="Footer, go to training,
text:training">Training
<li class="mr-3"><a href="https://blog.github.com" data-ga-click="Footer, go to blog,
text:blog">Blog
<a data-ga-click="Footer, go to about, text:about" href="https://github.com/about">About


```

```
</div>
<div class="d-flex flex-justify-center pb-6">

</div>
</div>
```

```
<div id="ajax-error-message" class="ajax-error-message flash flash-error">
 <svg class="octicon octicon-alert" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M8.893 1.5c-.183-.31-.52-.5-.887-.5s-.703.19-.886.5L1.38
13.499a.98.98 0 0 0 1.001c.193.31.53.501.886.501h13.964c.367 0 .704-.19.877-.5a1.03 1.03 0 0 0 .01-
1.002L8.893 1.5zm.133 11.497H6.987v-2.003h2.039v2.003zm0-3.004H6.987V5.987h2.039v4.006z"/></svg>
 <button type="button" class="flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
 <svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75 1.48 1.48L6 9.48l-3.75 3.75-1.48 1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
 </button>
 You cant perform that action at this time.
</div>
```

```
<script crossorigin="anonymous" integrity="sha512-
mal0oz3cFcr4OqIE2eo7Pmax6HtpOKvQfO4vqg9JuCb+iaf4H3KUP9Aryp4oP5mSMgEYUOwgBOAL6MTFaeCZ
3w==" type="application/javascript" src="https://assets-cdn.github.com/assets/compat-
3c69a4d015c4208bce7a9d5e4e15a914.js"></script>
```

```
<script crossorigin="anonymous" integrity="sha512-
MvNlmXbTAwL0N0zMxw8W6vtjWlf0QFvwVzvN8rZIJNdZfy9OJp2d4LQD9WA2rDNcHewz0PB9x/0G0Z9FO
uUWgw==" type="application/javascript" src="https://assets-cdn.github.com/assets/frameworks-
a2f69f341e3df821fdcb56e335ef9920.js"></script>
```

```
<script crossorigin="anonymous" async="async" integrity="sha512-
ZaL/4Buat7RjSkSOsgO00Sly2HFhe931/6Ge9ZDE27Ftfqp8Yk9tz6wwSSNntV7iBSIztlikNDTbAy5JqkTbtw=="
type="application/javascript" src="https://assets-cdn.github.com/assets/github-
d4b70be86b2ed7d76c9f2eee65c329d6.js"></script>
```

```
<div class="js-stale-session-flash stale-session-flash flash flash-warn flash-banner d-none">
 <svg class="octicon octicon-alert" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M8.893 1.5c-.183-.31-.52-.5-.887-.5s-.703.19-.886.5L1.38
13.499a.98.98 0 0 0 1.001c.193.31.53.501.886.501h13.964c.367 0 .704-.19.877-.5a1.03 1.03 0 0 0 .01-
1.002L8.893 1.5zm.133 11.497H6.987v-2.003h2.039v2.003zm0-3.004H6.987V5.987h2.039v4.006z"/></svg>
 You signed in with another tab or window. Reload to refresh
your session.
 You signed out in another tab or window. Reload to refresh
your session.
</div>
```



```

<div class="facebox" id="facebox" style="display:none;">
<div class="facebox-popup">
 <div class="facebox-content" role="dialog" aria-labelledby="facebox-header" aria-describedby="facebox-
description">
 </div>
 <button type="button" class="facebox-close js-facebox-close" aria-label="Close modal">
 <svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
 </button>
 </div>
</div>

<template id="site-details-dialog">
<details class="details-reset details-overlay details-overlay-dark lh-default text-gray-dark" open>
 <summary aria-haspopup="dialog" aria-label="Close dialog"></summary>
 <details-dialog class="Box Box--overlay d-flex flex-column anim-fade-in fast">
 <button class="Box-btn-octicon m-0 btn-octicon position-absolute right-0 top-0" type="button" aria-
label="Close dialog" data-close-dialog>
 <svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
 </button>
 <div class="octocat-spinner my-6 js-details-dialog-spinner"></div>
 </details-dialog>
</details>
</template>

<div class="Popover js-hovercard-content position-absolute" style="display: none; outline: none;" tabindex="0">
<div class="Popover-message Popover-message--bottom-left Popover-message--large Box box-shadow-large"
style="width:360px;">
 </div>
</div>

<div id="hovercard-aria-description" class="sr-only">
 Press h to open a hovercard with more details.
</div>

</body>
</html>

```

## 1.587 openjpa 3.0.0

## 1.587.1 Available under license :

```
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##
```

```
=====
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```
=====
openjpa-persistence -
orm-xsd.rsrc - CDDL 1.0 - included in the openjpa jar, taken from:
 http://java.sun.com/xml/ns/persistence/orm_1_0.xsd
orm_2_0-xsd.rsrc - CDDL 1.0 - included in the openjpa jar, taken from:
 http://java.sun.com/xml/ns/persistence/orm_2_0.xsd
persistence-xsd.rsrc - CDDL 1.0 - included in the openjpa jar, taken from:
 http://java.sun.com/xml/ns/persistence/persistence_1_0.xsd
persistence_2_0-xsd.rsrc - CDDL 1.0 - included in the openjpa jar, taken from:
 http://java.sun.com/xml/ns/persistence/persistence_2_0.xsd).
=====
```

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openjpa-persistence -
orm-xsd.rsrc - CDDL 1.0 - included in the openjpa jar, taken from:
 http://java.sun.com/xml/ns/persistence/orm_1_0.xsd
orm_2_0-xsd.rsrc - CDDL 1.0 - included in the openjpa jar, taken from:
 http://java.sun.com/xml/ns/persistence/orm_2_0.xsd
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persistence_2_0-xsd.rsrc - CDDL 1.0 - included in the openjpa jar, taken from:
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[http://java.sun.com/xml/ns/persistence/persistence\\_2\\_0.xsd](http://java.sun.com/xml/ns/persistence/persistence_2_0.xsd).

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```

$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

```

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```

```
*/
```

```
/* OPENBSD ORIGINAL: sys/sys/poll.h */
```

```

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _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
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#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 */
/* $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 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 */

```

```

/* =====

```

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```

$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $
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```

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```

```

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

```

/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

```

```

/*

```

```

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```

```
/* OPENBSD ORIGINAL: sys/sys/poll.h */
```

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _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-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 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 +683,7 @@ process_open(u_int32_t id)
Attrib a;
char *name;
int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+ mode_t old_umask = 0;

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 %d", id, pflags);
flags = flags_from_portable(pflags);

```

```

mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old_umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" 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\t[-P 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 = pwcopu(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
- "d:f:l:P:p:Q:u:cehR")) != -1) {
+ "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();
```

# 1.591 openssl 1.0.1e :57.el6

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-----

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```

```
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Ty Coon, President of Vice
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# 1.596 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
/* crypto/aes/aes_wrap.c */
```

```
/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
```

```
* project.
```

```
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
```

```
* size keys (Implemented RFC5649)
```

```
*/
```

```
/* =====
```

```
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```

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# 1.599 org.osgi.core 4.1.0

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## 1.603 p11-kit 0.23.5 :3.el7

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# 1.607 passwd 0.79 :4.el7

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Version 3, 29 June 2007

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Written by: Philip Hazel  
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```

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## 1.613 perl 5.16.3 :292.el7

### 1.613.1 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

Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?=  
MIME-Version: 1.0

MIME-Version: 1.0

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 Pizar: 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\_setv()

-    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");
}

-plan tests => 23;
+plan 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 {
+ $hhtie::explosive = 0;
+ tie %^H, hhtie;
+ $^H{foo} = bar;
+ $hhtie::explosive = 1;
+ }
+ { 1; }
+ `;
+}, 'hint-hash copying does not leak');
--
1.8.1.4

```

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

```

use strict;
use lib 't/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 = $dist->new_from_context();
isa_ok($mb, "Module::Build");
is($mb->license, 'perl',
 "license 'perl' 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"
);

}

{
my $dist = DistGen->new(
 name => 'Simple::Name',
 version => '0.01',
 license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok($mb, "Module::Build");
is($mb->license, 'VaporWare',
 "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata(fatal => 0);

is($meta->{license} => 'unrestricted', "META license will be 'unrestricted'");
is($meta->{resources}{license}, "http://example.com/vaporware/",
 "META license URL is correct"
);

}

Test with alpha number
vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

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

## 1.614 perl-Carp 1.26 :244.el7

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## 1.615 perl-constant 1.27 :2.el7

### 1.615.1 Available under license :

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## 1.616 perl-Data-Dumper 2.145 :3.el7

### 1.616.1 Available under license :

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## 1.617 perl-Encode 2.51 :7.el7

### 1.617.1 Available under license :

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## 1.618 perl-Exporter 5.68 :3.el7

## 1.618.1 Available under license :

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# 1.619 perl-File-Path 2.09 :2.el7

## 1.619.1 Available under license :

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# 1.620 perl-File-Temp 0.23.01 :3.el7

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```
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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.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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### 1.622.1 Available under license :

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```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

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```
Gnomovision version 69, Copyright (C) 19xx 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.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
```

at assemblers) written by James Hacker.

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

That's all there is to it!

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## **1.626 perl-PathTools 3.40 :5.el7**

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## **1.629 perl-Pod-Usage 1.63 :3.e17**

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## **1.630 perl-podlators 2.5.1 :3.e17**

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# 1.631 perl-Scalar-List-Utils 1.27 :248.el7

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

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```
Gnomovision version 69, Copyright (C) 19xx 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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```
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!  
This code was extracted from the Perl 5 core at perl 5.15.5.

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-----

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## 1.633 perl-Storable 2.45 :3.e17

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Content-Type: text/plain; charset="utf-8"  
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Will do in next version.

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yes

--

Alexandr Ciornii, <http://chorny.net>

## 1.635 perl-threads 1.87 :4.e17

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# 1.636 perl-threads-shared 1.43 :6.el7

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```
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at assemblers) written by James Hacker.
```

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

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## :0.28.20140113.el7.centos

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```

```
<signature of Ty Coon>, 1 April 1989
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Bouncy Castle library (bcprov-\*.jar, bcpkg-\*.jar, bcpkix-\*.jar)

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Hamcrest library (hamcrest-\*.jar) & CuvesAPI / Curve API

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=UTF-8">
<!--*** This is a generated file. Do not edit. ***-->
<link rel="stylesheet" href="skin/tigris.css" type="text/css">
<link rel="stylesheet" href="skin/mysite.css" type="text/css">
<link rel="stylesheet" href="skin/site.css" type="text/css">
<link media="print" rel="stylesheet" href="skin/print.css" type="text/css">
<title>Apache POI - Legal Stuff</title>
</head>
<body bgcolor="white" class="composite">
<!--===== start Banner =====-->
<div id="banner">
<table width="100%" cellpadding="8" cellspacing="0" summary="banner" border="0">
<tbody>
<tr>
<!--===== start Group Logo =====-->
<td width="50%" align="left">
<div class="groupLogo">

</div>
</td>
<!--===== end Group Logo =====-->
<!--===== start Project Logo =====--><td width="50%" align="right">
<div align="right" class="projectLogo">

</div>
</td>
<!--===== end Project Logo =====-->
</tr>
</tbody>
</table>
</div>
<!--===== end Banner =====-->
<!--===== start Main =====-->
<table width="100%" cellpadding="0" cellspacing="0" border="0" summary="nav" id="breadcrumbs">
<tbody>
<!--===== start Status =====-->
<tr class="status">
<td>
<!--===== start BreadCrumb =====-->Apache | POI
<!--===== end BreadCrumb =====--></td><td id="tabs">
<!--===== start Tabs =====-->
<div class="tab">
Home | <script
language="Javascript" type="text/javascript">
function printit() {
if (window.print) {
 window.print();
} else {
 var WebBrowser = '<OBJECT ID="WebBrowser1" WIDTH="0" HEIGHT="0" CLASSID="CLSID:8856F961-
340A-11D0-A96B-00C04FD705A2"></OBJECT>';
document.body.insertAdjacentHTML('beforeEnd', WebBrowser);
 WebBrowser1.ExecWB(6, 2);//Use a 1 vs. a 2 for a prompting dialog box WebBrowser1.outerHTML = "";
}
}
</script><script language="Javascript" type="text/javascript">
var NS = (navigator.appName == "Netscape");
var VERSION = parseInt(navigator.appVersion);
if (VERSION > 3) {
 document.write(' PRINT');
}
</script>
</div>
<!--===== end Tabs =====-->
</td>
</tr>
</tbody>
</table>
<!--===== end Status =====-->
<table id="main" width="100%" cellpadding="8" cellspacing="0" summary="" border="0">
<tbody>

```

```

<tr valign="top">
<!--===== start Menu =====-->
<td id="leftcol">
<div id="navcolumn">
<div class="menuBar">
<div class="menu">
Overview

<div class="menuItem">
Home
</div>

<div class="menuItem">
Download
</div>

<div class="menuItem">
Components
</div>

<div class="menuItem">
Text Extraction
</div>

<div class="menuItem">
Encryption support
</div>

<div class="menuItem">
Case Studies
</div>

<div class="menuItem">
Related projects
</div>

<div class="menuItem">
Legal
</div>

</div>
<div class="menu">
Help

<div class="menuItem">
Javadocs
</div>

```

```
<div class="menuItem">
FAQ
</div>
```

```
<div class="menuItem">
Mailing Lists
</div>
```

```
<div class="menuItem">
Bug Database
</div>
```

```
<div class="menuItem">
Changelog
</div>
```

```
</div>
<div class="menu">
Getting Involved
```

```
<div class="menuItem">
Subversion Repository
</div>
```

```
<div class="menuItem">
How To Build
</div>
```

```
<div class="menuItem">
Contribution Guidelines
</div>
```

```
<div class="menuItem">
Who We Are
</div>
```

```
</div>
<div class="menu">
Component APIs
```

```
<div class="menuItem">
Excel (SS=HSSF+XSSF+SXSSF)
</div>
```

```
<div class="menuItem">
PowerPoint (SL=HSLF+XSLF)
</div>
```



```
<div class="menuItem">
Word (WP=HWPF+XWPF)
</div>
```

```
<div class="menuItem">
Outlook (HSMF)
</div>
```

```
<div class="menuItem">
Visio (HDGF+XDGF)
</div>
```

```
<div class="menuItem">
Publisher (HPBF)
</div>
```

```
</div>
<div class="menu">
Low-level Component APIs
```

```
<div class="menuItem">
OLE2 Filesystem (POIFS)
</div>
```

```
<div class="menuItem">
OLE2 Document Props (HPSF)
</div>
```

```
<div class="menuItem">
TNEF (HMEF) for winmail.dat
</div>
```

```
<div class="menuItem">
OpenXML4J (OOXML)
</div>
```

```
<div class="menuItem">
Logging framework
</div>
```

```
</div>
<div class="menu">
Apache Wide
```

```
<div class="menuItem">
Apache Software Foundation
</div>
```

```

<div class="menuItem">
License
</div>

<div class="menuItem">
Sponsorship
</div>

<div class="menuItem">
Thanks
</div>

<div class="menuItem">
Security
</div>

</div>
</div>
</div>
<form target="_blank" action="https://www.google.com/search" method="get">
<table summary="search" border="0" cellspacing="0" cellpadding="0">
<tr>
<td></td><td nowrap="nowrap">
Search Apache POI

<input value="poi.apache.org" name="sitesearch" type="hidden"><input size="10" name="q" id="query"
type="text"><input name="Search"
value="GO" type="submit"></td><td></td>
</tr>
<tr>
<td colspan="3"></td>
</tr>
<tr>
<td class="bottom-left-thick"></td><td bgcolor="#a5b6c6"></td><td class="bottom-right-thick"></td>
</tr>
</table>
</form>
</td>
<!--===== end Menu =====-->
<!--===== start Content =====--><td>
<div id="bodycol">
<div class="app">
<div align="center">
<h1>Apache POI - Legal Stuff</h1>
</div>
<div class="h3">

```

<a name="License+and+Notice"></a>  
<div class="h3">  
<h3>License and Notice<a title="Permanent link" class="headerlink" href="#License+and+Notice">#</a>  
</h3>  
</div>

<p>  
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from the <a href="download.html">Download</a> page.  
</p>

<a name="Copyrights+and+Trademarks"></a>  
<div class="h3">  
<h3>Copyrights and Trademarks<a title="Permanent link" class="headerlink" href="#Copyrights+and+Trademarks">#</a>  
</h3>  
</div>

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</p>

<a name="Cryptography+Notice"></a>

```
<div class="h4">
<h4>Cryptography Notice#
</h4>
</div>
```

```
<p>
This distribution includes cryptographic software. The country in
which you currently reside may have restrictions on the import,
possession, use, and/or re-export to another country, of
encryption software. BEFORE using any encryption software, please
check your country's laws, regulations and policies concerning the
import, possession, or use, and re-export of encryption software, to
see if this is permitted. See
http://www.wassenaar.org
for more information.
</p>
```

```
<p>
The U.S. Government Department of Commerce, Bureau of Industry and
Security (BIS), has classified this software as Export Commodity
Control Number (ECCN) 5D002.C.1, which includes information security
software using or performing cryptographic functions with asymmetric
algorithms. The form and manner of this Apache Software Foundation
distribution makes it eligible for export under the License Exception
ENC Technology Software Unrestricted (TSU) exception (see the BIS
Export Administration Regulations, Section 740.13) for both object
code and source code.
</p>
```

```
<p>
The cryptographic software used is from java.security and
javax.crypto and is used when processing encrypted and
protected documents.
</p>
```

```
<div id="authors" align="right">by Tetsuya Kitahata, David Fisher</div>
</div>
</div>
</td>
<!--===== end Content =====>
</tr>
```

```

</tbody>
</table>
<!--===== end Main =====>
<!--===== start Footer =====>
<div id="footer">
<table summary="footer" cellspacing="0" cellpadding="4" width="100%" border="0">
<tbody>
<tr>
<!--===== start Copyright =====>
<td colspan="2">
<div align="center">
<div class="copyright">
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 trademarks of The Apache Software Foundation in the U.S. and/or other countries.
</div>
</div>
</td>
<!--===== end Copyright =====>
</tr>
<tr>
<td align="left">
<!--===== start Host =====>
<!--===== end Host =====></td><td align="right">
<!--===== start Credits =====>
<div align="right">
<div class="credit"></div>
</div>
<!--===== end Credits =====>
</td>
</tr>
</tbody>
</table>
</div>
<!--===== end Footer =====>
</body>
</html>

```

# 1.646 polycoreutils 2.5 :29.e17

## 1.646.1 Available under license :

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Version 2, June 1991

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If such an object file uses only numerical parameters, data

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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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Version 2, June 1991

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

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## 1.652 postfix 2.10.1 :6.e17

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Included for the use of the fix\_strcasecmp.c module which works around a Solaris problem.

```
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# 1.653 powermock 1.6.4

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## 1.656 procps 3.2.8 :45.el6

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```
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```

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

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## 1.658 psmisc 22.20 :15.e17

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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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(For example, a function in a library to compute square roots has

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## 1.662 pygobject2 2.28.6 :11.e17

### 1.662.1 Available under license :

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Version 2.1, February 1999

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## 1.664 pygpgme 0.3 :9.el7

### 1.664.1 Available under license :

From RPM File Metadata:LGPLv2+

## 1.665 pyliblzma 0.5.3 :11.el7

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Version 3, 29 June 2007

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# 1.666 python 2.7.5 :86.el7\_6.1

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```
.. highlightlang:: none
```

```
.. _history-and-license:
```

```

```

```
History and License
```

```

```

```
History of the software
```

```
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```

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

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

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

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0.9.0 thru 1.2	n/a	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2002-2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2003	PSF	yes

2.3.3	2.3.2	2003	PSF	yes	
2.3.4	2.3.3	2004	PSF	yes	
2.3.5	2.3.4	2005	PSF	yes	
2.4	2.3	2004	PSF	yes	
2.4.1	2.4	2005	PSF	yes	
2.4.2	2.4.1	2005	PSF	yes	
2.4.3	2.4.2	2006	PSF	yes	
2.4.4	2.4.3	2006	PSF	yes	
2.5	2.4	2006	PSF	yes	
2.5.1	2.5	2007	PSF	yes	
2.5.2	2.5.1	2008	PSF	yes	
2.5.3	2.5.2	2008	PSF	yes	
2.6	2.5	2008	PSF	yes	
2.6.1	2.6	2008	PSF	yes	
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2.7	2.6	2010	PSF	yes	

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Mersenne Twister

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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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## 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.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services

-----

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Cookie management

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Execution tracing

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UUencode and UUdecode functions  
-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----

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`test_epoll`

-----

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Select kqueue

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strtod and dtoa

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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### 3.4.0.2 :4.el7

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# 1.673 python-idna 2.4 :1.e17

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

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Release from	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

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## 1.678 python-lxml 3.2.1 :4.el7

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2.1	2.0+1.6.1	2001	PSF	no
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=====

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

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

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

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

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## 1.681 python-paramiko 2.1.1 :2.e17

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## 1.683 python-pyasn1 0.1.9 :7.el7

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## 1.684 python-pycparser 2.14 :1.e17

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# 1.685 python-pycurl 7.19.0 :19.e17

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## 1.686 python-setuptools 0.9.8 :7.e17

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Appendix: How to Apply These Terms to Your New Programs

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```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
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the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
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GNU General Public License for more details.
```

```
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along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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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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# 1.689 python-suds 0.4.1 :5.e17

## 1.689.1 Available under license :

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Version 3, 29 June 2007

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# 1.690 python-urlgrabber 3.10 :8.e17

## 1.690.1 Available under license :

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Version 2.1, February 1999

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## 1.691 pyxattr 0.5.1 :5.e17

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

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# 1.692 qrencode 3.4.1 :3.e17

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Version 2.1, February 1999

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

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# 1.706 redux-logger 3.0.6

# 1.707 Rhino 1.6R2

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## 1.708 Rhino 1.7R2

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# 1.711 rsync 3.0.9 :18.e17

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Version 3, 29 June 2007

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## 1.712 rsyslog 8.24.0 :34.e17

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## 1.713 saaj-api 1.3.4

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## 1.716 screen 4.1.0

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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.)

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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October 28, 1997

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Sam Lantinga (slouken@libsdl.org)

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Version 2.1, February 1999

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



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END OF TERMS AND CONDITIONS

## 1.719 sed 4.2.2 :5.e17

### 1.719.1 Available under license :

=====

Test 1.1:101

=====

Testing argument parsing

First type

e1\_11\_1

e1\_11\_1

e1\_11\_2

e1\_11\_2

e1\_11\_3

e1\_11\_3

e1\_11\_4

e1\_11\_4

e1\_11\_5

e1\_11\_5

e1\_11\_6

e1\_11\_6

e1\_11\_7

e1\_11\_7

e1\_11\_8

e1\_11\_8

e1\_11\_9

e1\_11\_9

e1\_11\_10

e1\_11\_10

e1\_11\_11

e1\_11\_11

e1\_11\_12

e1\_11\_12

e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.2:102

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.3:103

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
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e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.4:104

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

Second type

=====

Test 1.4.1:105

=====

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 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  
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 1.7:108

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====  
Test 1.8:109

=====

e1\_11\_1

e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.9:110

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.10:111

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.11:112

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.12:113

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11

e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====  
Test 1.13:114  
=====

e1\_11\_1  
e2\_e1\_11\_1  
e2\_e1\_11\_1  
e1\_11\_2  
e2\_e1\_11\_2  
e2\_e1\_11\_2  
e1\_11\_3  
e2\_e1\_11\_3  
e2\_e1\_11\_3  
e1\_11\_4  
e2\_e1\_11\_4  
e2\_e1\_11\_4  
e1\_11\_5  
e2\_e1\_11\_5  
e2\_e1\_11\_5  
e1\_11\_6  
e2\_e1\_11\_6  
e2\_e1\_11\_6  
e1\_11\_7  
e2\_e1\_11\_7  
e2\_e1\_11\_7  
e1\_11\_8  
e2\_e1\_11\_8  
e2\_e1\_11\_8  
e1\_11\_9  
e2\_e1\_11\_9  
e2\_e1\_11\_9  
e1\_11\_10  
e2\_e1\_11\_10  
e2\_e1\_11\_10  
e1\_11\_11  
e2\_e1\_11\_11  
e2\_e1\_11\_11  
e1\_11\_12  
e2\_e1\_11\_12  
e2\_e1\_11\_12  
e1\_11\_13  
e2\_e1\_11\_13  
e2\_e1\_11\_13  
e1\_11\_14  
e2\_e1\_11\_14

e2\_e1\_11\_14

=====  
Test 1.14:115

=====  
s1\_11\_1  
s2\_s1\_11\_1  
s2\_s1\_11\_1  
s1\_11\_2  
s2\_s1\_11\_2  
s2\_s1\_11\_2  
s1\_11\_3  
s2\_s1\_11\_3  
s2\_s1\_11\_3  
s1\_11\_4  
s2\_s1\_11\_4  
s2\_s1\_11\_4  
s1\_11\_5  
s2\_s1\_11\_5  
s2\_s1\_11\_5  
s1\_11\_6  
s2\_s1\_11\_6  
s2\_s1\_11\_6  
s1\_11\_7  
s2\_s1\_11\_7  
s2\_s1\_11\_7  
s1\_11\_8  
s2\_s1\_11\_8  
s2\_s1\_11\_8  
s1\_11\_9  
s2\_s1\_11\_9  
s2\_s1\_11\_9  
s1\_11\_10  
s2\_s1\_11\_10  
s2\_s1\_11\_10  
s1\_11\_11  
s2\_s1\_11\_11  
s2\_s1\_11\_11  
s1\_11\_12  
s2\_s1\_11\_12  
s2\_s1\_11\_12  
s1\_11\_13  
s2\_s1\_11\_13  
s2\_s1\_11\_13  
s1\_11\_14  
s2\_s1\_11\_14  
s2\_s1\_11\_14

=====  
Test 1.15:116  
=====

e1\_11\_1  
s1\_e1\_11\_1  
s1\_e1\_11\_1  
e1\_11\_2  
s1\_e1\_11\_2  
s1\_e1\_11\_2  
e1\_11\_3  
s1\_e1\_11\_3  
s1\_e1\_11\_3  
e1\_11\_4  
s1\_e1\_11\_4  
s1\_e1\_11\_4  
e1\_11\_5  
s1\_e1\_11\_5  
s1\_e1\_11\_5  
e1\_11\_6  
s1\_e1\_11\_6  
s1\_e1\_11\_6  
e1\_11\_7  
s1\_e1\_11\_7  
s1\_e1\_11\_7  
e1\_11\_8  
s1\_e1\_11\_8  
s1\_e1\_11\_8  
e1\_11\_9  
s1\_e1\_11\_9  
s1\_e1\_11\_9  
e1\_11\_10  
s1\_e1\_11\_10  
s1\_e1\_11\_10  
e1\_11\_11  
s1\_e1\_11\_11  
s1\_e1\_11\_11  
e1\_11\_12  
s1\_e1\_11\_12  
s1\_e1\_11\_12  
e1\_11\_13  
s1\_e1\_11\_13  
s1\_e1\_11\_13  
e1\_11\_14  
s1\_e1\_11\_14  
s1\_e1\_11\_14

=====  
Test 1.16:117

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14  
e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10

e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.17:118

=====

11\_1  
11\_1  
11\_2  
11\_2  
11\_3  
11\_3  
11\_4  
11\_4  
11\_5  
11\_5  
11\_6  
11\_6  
11\_7  
11\_7  
11\_8  
11\_8  
11\_9  
11\_9  
11\_10  
11\_10  
11\_11  
11\_11  
11\_12  
11\_12  
11\_13  
11\_13  
11\_14  
11\_14

=====

Test 1.18:119

=====

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

Testing address ranges

=====  
Test 2.1:120

=====  
11\_4

=====  
Test 2.2:121

=====  
12\_6

=====  
Test 2.3:122

=====  
11\_14

=====  
Test 2.4:123

=====  
12\_9

=====  
Test 2.5:124

=====  
12\_9

=====  
Test 2.6:125

=====  
12\_9

=====  
Test 2.7:126

=====  
12\_9

=====  
Test 2.9:127

=====  
11\_7

=====  
Test 2.10:128

=====  
11\_7

=====  
Test 2.11:129

=====  
11\_7

=====  
Test 2.12:130

=====  
11\_1  
11\_2  
11\_3  
11\_4

=====  
Test 2.13:131

=====  
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 2.14:132  
=====

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\_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 2.16:134

=====  
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

=====  
Test 2.17:135

=====  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
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

=====

l2\_3  
l2\_4  
l2\_5  
l2\_6  
l2\_7  
l2\_8  
l2\_9

=====  
Test 2.19:137

=====  
l1\_12

=====  
Test 2.20:138

=====  
l1\_7  
Brace and other grouping

=====  
Test 3.1:139

=====  
l1\_1  
l1\_2  
l1\_3  
^l1T4\$  
^l1T5\$  
^l1T6\$  
^l1T7\$  
^l1T8\$  
^l1T9\$  
^l1T10\$  
^l1T11\$  
^l1T12\$  
l1\_13  
l1\_14

=====  
Test 3.2:140

=====  
l1\_1  
l1\_2  
l1\_3  
^l1\_4  
^l1\_5  
^l1\_6\$  
^l1\_7\$  
^l1T8\$

^11\_9\$  
^11\_10\$  
^11\_11  
^11\_12  
11\_13  
11\_14

=====

Test 3.3:141

=====

^11T1\$  
^11T2\$  
^11T3\$  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
^11T13\$  
^11T14\$

=====

Test 3.4:142

=====

^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

Testing a c d and i commands

=====

Test 4.1:143

=====

before\_i11\_1

after\_ibefore\_il1\_1  
before\_il1\_2  
after\_ibefore\_il1\_2  
before\_il1\_3  
after\_ibefore\_il1\_3  
before\_il1\_4  
after\_ibefore\_il1\_4  
before\_il1\_5  
after\_ibefore\_il1\_5  
before\_il1\_6  
after\_ibefore\_il1\_6  
before\_il1\_7  
after\_ibefore\_il1\_7  
before\_il1\_8  
after\_ibefore\_il1\_8  
before\_il1\_9  
after\_ibefore\_il1\_9  
before\_il1\_10  
after\_ibefore\_il1\_10  
before\_il1\_11  
after\_ibefore\_il1\_11  
before\_il1\_12  
after\_ibefore\_il1\_12  
before\_il1\_13  
after\_ibefore\_il1\_13  
before\_il1\_14  
after\_ibefore\_il1\_14  
before\_il2\_1  
after\_ibefore\_il2\_1  
before\_il2\_2  
after\_ibefore\_il2\_2  
before\_il2\_3  
after\_ibefore\_il2\_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\_a5-1211\_5

after\_abefore\_a5-1211\_5

appended

before\_a5-1211\_6

after\_abefore\_a5-1211\_6

appended

before\_a5-1211\_7

after\_abefore\_a5-1211\_7

appended

before\_a5-1211\_8

after\_abefore\_a5-1211\_8

appended

before\_a5-1211\_9

after\_abefore\_a5-1211\_9

appended

before\_a5-1211\_10

after\_abefore\_a5-1211\_10

appended

before\_a5-1211\_11

after\_abefore\_a5-1211\_11

appended

before\_a5-1211\_12

after\_abefore\_a5-1211\_12

appended

before\_al1\_13

after\_abefore\_al1\_13

before\_al1\_14

after\_abefore\_al1\_14

before\_al2\_1

after\_abefore\_al2\_1

before\_al2\_2

after\_abefore\_al2\_2

before\_al2\_3

after\_abefore\_al2\_3

before\_al2\_4

after\_abefore\_al2\_4

before\_al2\_5

after\_abefore\_al2\_5



before\_al2\_6  
after\_abefore\_al2\_6  
before\_al2\_7  
after\_abefore\_al2\_7  
before\_al2\_8  
after\_abefore\_al2\_8  
before\_al2\_9  
after\_abefore\_al2\_9

=====

Test 4.3:145

=====

^11\_1  
^11\_1\$  
appended  
^11\_2  
^11\_2\$  
appended  
^11\_3  
^11\_3\$  
appended  
^11\_4  
^11\_4\$  
appended  
^11\_5  
^11\_5\$  
appended  
^11\_6  
^11\_6\$  
appended  
^11\_7  
^11\_7\$  
appended  
^11\_8  
appended  
^11\_8  
11\_9\$  
^11\_10  
appended  
^11\_10  
11\_11\$  
^11\_12  
^11\_12\$  
appended  
^11\_13  
^11\_13\$  
appended  
^11\_14

^11\_14\$  
appended  
^12\_1  
^12\_1\$  
^12\_2  
^12\_2\$  
^12\_3  
^12\_3\$  
^12\_4  
^12\_4\$  
^12\_5  
^12\_5\$  
^12\_6  
^12\_6\$  
^12\_7  
^12\_7\$  
^12\_8  
^12\_8\$  
^12\_9  
^12\_9\$

=====  
Test 4.4:146

=====  
hello

hello  
hello  
hello  
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\_11\_1

label3\_label2\_11\_1

label1\_11\_2

label1\_11\_3

label1\_11\_4

label1\_11\_5

label1\_11\_6

label1\_11\_7

label1\_11\_8

label1\_11\_9

label1\_11\_10

label1\_11\_11

label1\_11\_12

label2\_11\_13

label3\_label2\_11\_13

label2\_11\_14

label3\_label2\_11\_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\$  
l1\_13\$  
l1\_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  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed

changed  
changed  
changed  
changed

=====

Test 6.2:160

=====

11\_1  
11\_2  
11\_3  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.3:161

=====

11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.4:162

=====

11\_1  
11\_2  
11\_3  
11\_2  
11\_3  
11\_5  
11\_2  
11\_3  
11\_2

11\_3  
11\_6  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.5:163

=====

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

=====

Test 6.6:164

=====

Testing print and file routines

=====

Test 7.1:165

=====

\001\002\003\004\005\006\a\b\t\$\n  
\v\fr\016\017\020\021\022\023\024\025\026\027\030\031\032\033\034\  
\035\036\037 !"#\$\$%&'()\*+,-./0123456789:;<=>?@ABCDEFGHIJKLMN  
OPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxy{|}~\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

12\_7

22

12\_8

23

12\_9

=====

Test 7.3:167

=====

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

w results

11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12

=====

Test 7.4:168

=====

11\_1  
11\_2  
11\_3  
11\_4  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 7.5:169

=====  
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

=====  
Test 7.6:170

=====  
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

=====  
Test 7.8:171

=====  
Testing substitution commands

=====  
Test 8.1:172

=====  
XXXX  
XXXX  
XXXX

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

=====  
Test 8.2:173

=====  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

=====  
Test 8.3:174

=====  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

=====  
Test 8.4:175  
=====

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

=====  
Test 8.5:176  
=====

11X1  
11X2  
11X3  
11X4  
11X5  
11X6  
11X7  
11X8  
11X9  
11X10  
11X11  
11X12  
11X13  
11X14

=====  
Test 8.6:177  
=====

(1)(1)(\_(1)  
(1)(1)(\_(2)  
(1)(1)(\_(3)  
(1)(1)(\_(4)  
(1)(1)(\_(5)  
(1)(1)(\_(6)  
(1)(1)(\_(7)  
(1)(1)(\_(8)  
(1)(1)(\_(9)

(1)(1)(1)(0)  
(1)(1)(1)(1)  
(1)(1)(1)(2)  
(1)(1)(1)(3)  
(1)(1)(1)(4)

=====  
Test 8.7:178  
=====

(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)

=====  
Test 8.8:179  
=====

x\_x1x11  
x\_x1x12  
x\_x1x13  
x\_x1x14  
x\_x1x15  
x\_x1x16  
x\_x1x17  
x\_x1x18  
x\_x1x19  
x\_x1x110  
x\_x1x111  
x\_x1x112  
x\_x1x113  
x\_x1x114

=====  
Test 8.9:180  
=====

11u0  
u1  
u21

l1u0  
u1  
u22  
l1u0  
u1  
u23  
l1u0  
u1  
u24  
l1u0  
u1  
u25  
l1u0  
u1  
u26  
l1u0  
u1  
u27  
l1u0  
u1  
u28  
l1u0  
u1  
u29  
l1u0  
u1  
u210  
l1u0  
u1  
u211  
l1u0  
u1  
u212  
l1u0  
u1  
u213  
l1u0  
u1  
u214

=====

Test 8.10:181

=====

l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_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\_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

=====  
18\_8  
18\_7  
18\_6  
18\_5  
18\_4  
18\_3  
18\_2  
18\_1  
18\_0  
18\_89  
18\_88  
18\_87  
18\_86  
18\_85

=====  
Test 8.14:185

=====  
18\_8  
18\_7  
18\_6  
18\_5  
18\_4  
18\_3  
18\_2  
18\_1  
18\_0  
18\_89  
18\_88  
18\_87  
18\_86  
18\_85



=====  
Test 8.15:186

=====  
11\_1X11\_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

=====  
Test 8.16:187

=====  
eeefff  
Xeefff  
XYefff  
XYeYff  
XYeYYf  
XYeYYY  
XYeYYY

=====  
Test 8.17:188

=====  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&

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## 1.723 setroubleshoot 3.2.28 :3.e17

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## 1.724 setroubleshoot-plugins 3.0.65 :1.e17

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## 1.738 slf4j-api 1.7.2

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 */
package org.slf4j.helpers;

import java.io.ObjectStreamException;
import java.io.Serializable;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Serves as base class for named logger implementation. More significantly, this
 * class establishes deserialization behavior. See @see #readResolve.
 *
 * @author Ceki Gulcu
 * @since 1.5.3
 */
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.
 *
 * <p>
 * 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());
}
}

```

## 1.740 slf4j-log4j12 1.7.12

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# 1.741 slf4j-log4j12 1.7.12

# 1.742 slf4j-log4j12 1.6.1

# 1.743 smack 3.4.1

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## 1.744 smack-core-4.3.1 4.3.1

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# 1.765 spring-test 3.0.5.RELEASE

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# 1.766 spring-tx 3.0.5.RELEASE

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## 1.767 spymemcached 2.8.0

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<html><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<title>SQLite Copyright</title>
<style type="text/css">
body {
 margin: auto;
 font-family: Verdana, sans-serif;
 padding: 8px 1%;
}

a { color: #044a64 }
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline {
float:right;
text-align:right;
font-style:italic;
width:300px;
margin:12px;
margin-top:58px;
}

.menuubar {
clear: both;
border-radius: 8px;
background: #044a64;
padding: 0px;
margin: 0px;
cell-spacing: 0px;
}

.toolbar {
text-align: center;
line-height: 1.6em;
margin: 0;
padding: 0px 8px;
}

.toolbar a { color: white; text-decoration: none; padding: 6px 12px; }
.toolbar a:visited { color: white; }
.toolbar a:hover { color: #044a64; background: white; }

.content { margin: 5%; }
.content dt { font-weight:bold; }
.content dd { margin-bottom: 25px; margin-left:20%; }
.content ul { padding:0px; padding-left: 15px; margin:0px; }
```

```

/* Things for "fancyformat" documents start here. */
.fancy img+p { font-style:italic }
.fancy .codeblock i { color: darkblue; }
.fancy h1,.fancy h2,.fancy h3,.fancy h4 { font-weight:normal;color:#044a64 }
.fancy h2 { margin-left: 10px }
.fancy h3 { margin-left: 20px }
.fancy h4 { margin-left: 30px }
.fancy th { white-space:nowrap;text-align:left;border-bottom:solid 1px #444 }
.fancy th, .fancy td {padding: 0.2em 1ex; vertical-align:top}
.fancy #toc a { color: darkblue ; text-decoration: none }
.fancy .todo { color: #AA3333 ; font-style : italic }
.fancy .todo:before { content: 'TODO:' }
.fancy p.todo { border: solid #AA3333 1px; padding: 1ex }
.fancy img { display:block; }
.fancy :link:hover, .fancy :visited:hover { background: wheat }
.fancy p,.fancy ul,.fancy ol { margin: 1em 5ex }
.fancy li p { margin: 1em 0 }
/* End of "fancyformat" specific rules. */

```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div><!-- container div to satisfy validator -->
```

```

```

```

```

```
<div><!-- IE hack to prevent disappearing logo--></div>
```

```
<div class="tagline">Small. Fast. Reliable.
Choose any three.</div>
```

```
<table width=100% class="menubar"><tr>
```

```
<td width=100%>
```

```
<div class="toolbar">
```

```
About
```

```
Sitemap
```

```
Documentation
```

```
Download
```

```
License
```

```
News
```

```
Support
```

```
</div>
```

```
<script>
```

```
gMsg = "Search SQLite Docs..."
```

```
function entersearch() {
```

```
var q = document.getElementById("q");
```

```
if(q.value == gMsg) { q.value = "" }
```

```
q.style.color = "black"
```

```

 q.style.fontStyle = "normal"
 }
function leavesearch() {
 var q = document.getElementById("q");
 if(q.value == "") {
 q.value = gMsg
 q.style.color = "#044a64"
 q.style.fontStyle = "italic"
 }
}
</script>
<td>
 <div style="padding:0 1em 0px 0;white-space:nowrap">
 <form name=f method="GET" action="http://www.sqlite.org/search">
 <input id=q name=q type=text
 onfocus="entersearch()" onblur="leavesearch()" style="width:24ex;padding:1px 1ex; border:solid white 1px;
font-size:0.9em ; font-style:italic;color:#044a64;" value="Search SQLite Docs...">
 <input type=submit value="Go" style="border:solid white 1px;background-color:#044a64;color:white;font-
size:0.9em;padding:0 1ex">
 </form>
 </div>
</td>
</table>

```

```
<div class=startsearch></div>
```

```
<h2>SQLite Copyright</h2>
```

```

<table align="right" vspace="0" hspace="10" border="1" cellpadding="20">
<tr><td align="center">

SQLite is in the

Public Domain
</td></tr>
</table>

```

```
<p>
```

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</p>

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### 1.769.1 Available under license :

From RPM File Metadata:GPLv2+

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## 1.771 star 1.5.2 :13.e17

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# 1.781 stunnel 4.56 :6.e17

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## 1.782 sudo 1.8.19p2 :10.e17

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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  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
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Coleman, Chris  
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Cusack, Frank  
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Dill, David  
Earickson, Jeff  
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Edgington, Ben  
Esipovich, Marc  
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Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
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G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
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Hayman, Randy M.  
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Krause, David  
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Marchionna, Michael D.  
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Petten, Diego Elio  
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de Raadt, Theo  
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Simon, Thor Lancelot  
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Sobrado, Igor  
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Spradling, Cloyce D.  
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Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
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Toft, Martin  
Torek, Chris  
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Uhl, Robert  
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Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub

Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
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Karvonen, Jorma  
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Nikoli, Miroslav  
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Qun, Trn Ngc  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.787 systemd 219 :67.el7\_6.1

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/\*

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\*

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\*/

```
#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 {
 __s32 pipefd;
};

struct args_timeout {
 __u64 timeout;
};

struct args_requester {
 __u32 uid;
 __u32 gid;
};

```

```

struct args_expire {
 __u32 how;
};

struct args_askumount {
 __u32 may_umount;
};

struct args_ismountpoint {
 union {
 struct args_in {
 __u32 type;
 } in;
 struct args_out {
 __u32 devid;
 __u32 magic;
 } out;
 };
};

/*
 * 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
 * including this struct */
 __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_SETPRPF_CMD,
 AUTOFS_DEV_IOCTL_CATA_TONIC_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_ASKMOUNT_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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Version 2, June 1991

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# 1.788 systemd-python 219 :67.el7\_7.1

## 1.789 sysvinit 2.88 :14.dsf.el7

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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](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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# 1.790 tar 1.26 :35.e17\_6

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Version 3, 29 June 2007

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 \*/

People who have contributed to tcsh for win32 with bugfixes, functionality,  
 and other useful pieces of code. If I've left you out, please let me know !

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Mike	Thomas	(miketh@brisbane.paradigmgeo.com)
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```
/*
 * config.h -- configure various defines for tcsh
 *
 * All source files should #include this FIRST.
 *
 * Edit this to match your system type.
 */

#ifndef _h_config
#define _h_config
/***** System dependant compilation flags *****/
/*
 * POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
 */
#undef POSIX

/*
 * POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
```

```

* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix
* (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgtyb.
* This is usually the case for SYSV systems, where
* BSD uses sgtyb. POSIX systems should define this
* anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
* NOTE: don't do this if you are on a Pyramid -- tcsh is

```

```

* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
* you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

/*
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS

/***** local defines *****/

#endif /* _h_config */

```

# 1.795 texinfo 5.1 :4.el7

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From RPM File Metadata:BSD

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## 1.798 time 1.7 :45.e17

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codegen-ecore-2.2.3.jar  
common-2.2.3.jar  
ecore-2.2.3.jar  
ecore-change-2.2.3.jar  
ecore-xmi-2.2.3.jar  
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For Saxon including  
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saxon-xpath-8.7.jar

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Jython (jython-2.2.jar):

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jaxb-api-2.1.jar,

jaxb-impl-2.1.7.jar,

jaxb-xjc-2.1.7.jar,

jsr181-api-1.0-MR1.jar,

jsr250-api-1.0.jar,

jaxws-api-2.1.jar,

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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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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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---

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This file contains some details about the copyright history of

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- \* from Steve P. Miller.

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#### FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

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Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip

are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "macbin3" decoding code  
(extra field compatibility with ZipIt):

\* MacBinaryIII.h  
\*  
\* Copyright 1997 Christopher Evans (cevens@poppybank.com)  
\*  
\* Basic encoding and decoding of Macintosh files to the  
\* MacBinary III spec.  
\* -----  
\* This source is copyrighted by Christopher Evans (cevens@poppybank.com)  
\* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit  
\* homepage of Leonard Rosenthol leonardr@netcom.com)

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"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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```
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```

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## 1.820 usermode 1.111 :5.e17

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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

1beb87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe 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

2e1cee529cb59c9341afef0443f196a1 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	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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## 1.824 uuid 3.2.1

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## 1.825 validation-api 1.1.0

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# 1.827 vim 7.4.160 :2.el7

## 1.827.1 Available under license :

/\*

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\*

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Arnaud LE HORS BULL Research FRANCE -- Koala Project  
 (XPM - X PixMap format version 2 & 3)

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 2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE

Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

" 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-z]\+\(\.[-\_+A-Z0-9a-z]\+\)\*" contained

syn match psfAttAbbrev ",\<(\(fa\|fr\|[aqlrv])\)(\<|\>|\<=|\>=|\|=|==)[^,]\+" contained

syn match psfObjTags "\<[-\_+A-Z0-9a-z]\+\(\.[-\_+A-Z0-9a-z]\+\)\*\(\s\+\<[-\_+A-Z0-9a-z]\+\)\(\.[-\_+A-Z0-9a-



z|\+)\*)\*" contained

syn match psfNumber "<<d|+>" contained

syn match psfFloat "\<d|+>(\.|<d|+>)\*" contained

syn match psfLongDate "\<d\d\d\d\d\d\d\d\d\d\d\d\d>" 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\|exquisites\|prerequisites\|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

```

*\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\**

## SUMMARY

*\*iccf\* \*ICCF\**

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see `|kcc|` below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See `|sponsor|`. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see `|manual-copyright|`.

=== begin of license ===

## VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

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- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:

- a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely `vim.sf.net`, `www.vim.org` and/or `comp.editors`). When it is completely

impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

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.

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<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

==== 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 further changes to also be made under the GNU GPL or a compatible license.
- 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\* \*Kibaale\* \*charity\*

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:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:



# 1.828 which 2.20

## 1.828.1 Available under license :

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Version 3, 29 June 2007

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The precise terms and conditions for copying, distribution and modification follow.

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#### 1. Source Code.

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.

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Joseph Reagle <<mailto:site-policy@w3.org>>

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## 1.837 xercesImpl 2.9.1

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## 1.849 XmlBeans 2.5.0

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# 1.857 XMLTooling 1.3.4

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# 1.858 XOM 1.2.5

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```

```
/* Getopt for GNU.
```

```
NOTE: getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to drepper@gnu.org
before changing it!
```

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## 1.868 yum 3.4.3 :154.el7.centos

### 1.868.1 Available under license :

```
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
+++ b/yum/update_md.py 2015-01-19 08:57:31.576489424 -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 = oldpkg tup[0]
+ arch = oldpkg tup[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):
+ other_arch = True
+ else:
+ continue
+
+ pkg tup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+ pkg['version'], pkg['release'])
+ if _rpm_tup_vercmp(pkg tup, oldpkg tup) <= 0:
+ continue
- ret.append((pkg tup, notice))
+ if other_arch:
+ other_arch_list.append((pkg tup, notice))
+ else:
+ ret.append((pkg tup, notice))
+ notices.add(notice)
+
+ for pkg tup, notice in other_arch_list:
+ if notice not in notices:
+ ret.append((pkg tup, 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.old 2015-05-28 19:23:35.589691937 +0200
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200

```

```

@@ -33,6 +33,7 @@ import Errors
import logginglevels

import rpmUtils.miscutils
+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
+++ yum-3.4.3/yum/update_md.py 2017-01-24 18:55:57.213511475 +0100
```

```
@@ -58,7 +58,7 @@ class UpdateNotice(object):
```

```
 A single update notice (for instance, a security fix).
```

```
 """
```

```
- def __init__(self, elem=None):
```

```
+ def __init__(self, elem=None, repoid=None, vlogger=None):
```

```
 self._md = {
```

```
 'from' : "",
```

```
 'type' : "",
```

```
@@ -83,6 +83,9 @@ class UpdateNotice(object):
```

```
 if elem:
```

```
 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):
```

```
 # Tests to see if it's "the same data", which means that the
```

```
 # packages can be different (see add_notice).
```

```
+ def _rid(un):
```

```
+ if hasattr(un, '_repoid') and un._repoid is not None:
```

```
+ return un._repoid
```

```
+ else:
```

```
+ return '<unknown>'
```

```
+
```

```
+ 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:\n')
```

```
+ msg %= other._md['update_id']
```

```
+ msg += '<<<<<<<< %s:%s\n' % (_rid(other), data)
```

```
+ msg += '%r\n=====\\n%r\n' % (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):
 data = 'status'
 if self._md[data] != other._md[data]:
 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):
 for event, elem in safe_iterparse(infile, logger=self._logger):
 if elem.tag == 'update':
 try:
- un = UpdateNotice(elem)
+ un = UpdateNotice(elem, repoid, self._vlogger)
 except UpdateNoticeException, e:
 msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
 if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
 msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
 _rid(repoid))
 if not have_dup:
 msg += _("\nYou should report this problem to the owner of the %srepository.") % _rid(repoid, "%s ")
+ msg += _("\nIf 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)

```

# 1.869 yum-metadata-parser 1.1.4 :10.e17

## 1.869.1 Available under license :

From RPM File Metadata:GPLv2

# 1.870 yum-utils 1.1.31 :42.el7

## 1.870.1 Available under license :

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