Open Source Used In Enterprise Network Function Virtualization Infrastructure Service 3.11.1

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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The original versions are tagged 'DOM_LEVEL_2'

The specification of DOM Level 2's various parts is at:
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1.50 are-we-there-yet 1.0.5

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1.51 argparse 1.2.1

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History

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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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.
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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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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#!/bin/sh

# $Id$
#
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set -e

# Command line arguments:
# $1 event that happened:
#   BIND: Successfully claimed address
#   CONFLICT: An IP address conflict happened
#   UNBIND: The IP address is no longer needed
#   STOP: The daemon is terminating
# $2 interface name
# $3 IP address

# We have the BSD ifconfig tool

case "$1" in
  BIND)
    ifconfig "$2" "$3"/16
    ;;
  CONFLICT|STOP|UNBIND)
    ifconfig "$2" "$3"/16 delete
    ;;
  *)
    echo "Unknown event $1" >&2
    exit 1
esac
1.93 avaje-ebeanorm 3.3.4

1.93.1 Available under license:

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be combined with the library in order to run.

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The primary ANTLR guy:

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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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From spcecdt@armory.com Wed May 10 10:21:11 1995
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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:

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
> 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. :-)

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1.120 beeper 1.1.0

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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
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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@end enumerate

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@item
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combination of the three, merge those two alternatives to suit the
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
(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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Version 3, 29 June 2007

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1.137 boom 2.10.1

1.137.1 Available under license:

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* * *

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1.138 boost 1.53.0 :27.el7

1.138.1 Available under license :
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 };
#endif
-#else
+- enum {
-    n =
```cpp
-# 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)
    enum { n = sizeof(T) > -1 };
#endif

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christian Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49
+0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahms (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahms (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
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<?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 $"
xmns: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 1977,1985 Someone else]
]
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
/*
 *
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 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 *
 */

#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\n";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</title>\n" "</head>\n" "<body>\n" "<H1>Boost Licence Dependency Information\n";
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...
" "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
" "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" "<a href="#copyright">Copyright Holder Information</a>
"; 
}

os <<
"<a href="#depend">File Dependency Information</a>
" 
"</pre>

//
// input Information:
//
//
os << "<a name="input"></a><h2>Input Information</h2>
"; if(m_scan_mode)
oos << "<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;
}
oos << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code>";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)"");
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));
oos << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>";
}
output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
//
// start with the summary:
//
    os << "<a name="summary">\</a><h2>Licence Summary</h2>\n";
while(i != j)
{
// title:
    os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#">(see details)</a>";
    os << "</P></BLOCKQUOTE>\n";
    ++i;
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details">\</a><h2>Licence Details</h2>\n";
while(i != j)
{
// title:
    os << "<H3>" << 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: <a href="#">(see details)</a>";
    }
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>
";
    ++x;
}

os << "</P></BLOCKQUOTE>
";
// Files using this license:

os << "<P>This license applies to the following " << i->second.files.size() << " files:</P>
<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>
";
    ++m;
}

os << "</P></BLOCKQUOTE>
";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>
";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>
";
}
++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>
";

"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P>
<BLOCKQUOTE><P>
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>
";
    ++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>
";

"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>
<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++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><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:
    " << 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)
            << "<br><table border="1">\n  \t<tr>\t<td>\n  \t</td><pre>" << i->second.first << "</pre></td>\n  \t</td><pre>" << i->second.second << "</pre></td>\n  \t</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"></a>Files that could be converted to the Boost Software License</h2><p>
    " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:
    " << m_can_migrate_to_bsl.empty())
    {
        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>
            ++i2;
Files that can NOT be converted to the Boost Software License

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:

Authors we need for the BSL

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>.

// output a table of copyright information:

Copyright Holder Information

//
os << "</table>\n";
}

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

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

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@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 Dossor provided Alpha/OSF/1 code. He and
Dave Detlef (detlef@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

Boost.Geometry (aka GGL, Generic Geometry Library)

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-->

<para>The following is the overall license for the boost date_time
library. This notice is found in all source files related to the
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](../libs/mpl/doc/refmanual/integral-constant.html): that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [boost::mpl::true_], `__false_type` inherits from [boost::mpl::false_], and `__integral_constant<T, v>` inherits from [boost::mpl::integral_c<T,v>] (provided `T` is not `bool`)

[endsect]
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../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">

---

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MPL Interoperability

All the value based traits in this library conform to MPL's requirements for an `integral_constant` type. That includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `true_type` inherits from `bool`, `false_type` inherits from `bool`, and `integral_constant<T, v>` inherits from `integral_constant<T, v>`. 
class="identifier">mpl</class="identifier">::</class="identifier">integral_c</class="identifier">T</class="identifier">::</class="identifier">integral_c</class="identifier">v</class="identifier">::</class="identifier">special</class="identifier">)</code></a>(provided <code class="computeroutput">T</code> is not <code class="computeroutput">bool</code>)</p>

### Table

<table>
<thead>
<tr>
<th>Class</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>mpl::integral_c&lt;T, v&gt;</td>
<td>For integral constant value</td>
</tr>
</tbody>
</table>

### Class Definitions

```
class mpl::integral_c<T, v> {
  // Class implementation
};
```

This class is used to define integral constant values in the Boost library.

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---
#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 {

//namespace boost [}

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

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

#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
   static const 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;

}} //namespace boost
}}} //namespace boost
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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//
//
/////////////////////////////////////////////////////////////////////////////
#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>
typedef bool_<false>

true_;
false_;

typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;

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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;  };
#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;  };
#endif

#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;  };

#endif
```cpp
#ifndef _MANAGED

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

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

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; }
#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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1.142 bootstrap-daterangepicker.js 1.3.13
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1.143 bootstrap-tagsinput.min.js 0.5

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1.144 bootstrap-timepicker.js 0.2.6

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1.148 browser-sync 2.11.1

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1.149 browser-sync-client 2.4.1

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1.154 btrace-client 1.2.3

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.167 cairo 1.14.8 :2.el7

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One of the key reasons we got delayed on the CentOS-6 release was lack of 
suitable build resources, especially when we had to repeatedly build large 
chunks of code. Norwood S came forward and worked with me to 
setup a large build machine, then tune the build process and help improve 
the overall build, test and validate process we were using. This build 
machine he donated to the project was about 5 times more capable than the 
entire buildsystem we had. And he did this out of his own pocket, from 
his own time, and has since upgraded the machine as well. It’s now a 128GB, 
48 core machine, with 4 SSD’s and 4 sata disks : but the key metric is 
that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver 
CentOS-7 as rapidly as we have been able to.

We’d like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, 
AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

Akemi Matsuno-Yagi
Alain Reguera Delgado
Alan Bartlett
Andreas Thienemann
Anssi Johansson
Athmane Madjoudj
Bonnie King
Brian Stinson
Carl Trieloff
Christoph Galuschka
Fabian Arrotin
Jakub Filak
James Moger
Jeff Sheltren
Jim Perrin
Johnny Hughes Jr
Karanbir Singh
Karsten Wade
Kay Williams
Manuel Wolfshant
Matej Habrnal
Marcus Moeller
Michael Scherer
Mike McLean
Pat Riehecky
Ralph Angenendt
Scott Robbins
Stephen John Smoogen
Trevor Hemsley
Tru Huynh
Tuomas Kuosmanen
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Benoit Sigoure <tsuna@google.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith ray@gmail.com>
Kostya Serebryany <kcc@google.com>
Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus. heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbl@acm.org>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@acm.org>
Owen Carlsen <ocarlsen@gmail.com>
Pankaj Tanev <pankaj@menalto.com>
Paul Menage <menage@acm.org>
Piotr Kaminski <piotr@menalto.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsdal@gmail.com>
Takeshi Yoshino <tyoshino@gmail.com>
Vadim Berman <vadim@acm.org>
Vlad Losev <vladl@acm.org>
Wolfgang Klier <wklier@gmail.com>
Zhanyong Wan <wan@acm.org>

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# here. Please keep the list sorted by first names.

Ajay Joshi <aj@google.com>
Balzs Dn <balazs dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlercc@acm.org>
Chris Prince <cprince@acm.org>
Chris Taylor <ctaylor@acm.org>
Dan Egnor <egnor@acm.org>
Eric Roman <eromant@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@acm.org>
Ji Sigursson <joi@acm.org>
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Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

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1.239 container-selinux 2.55 :1.el7

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

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

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

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

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1.250 cracklib 2.9.0 :11.el7
1.250.1 Available under license :

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

 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
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 didn't 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 isn't the place of =
a=20
library to dictate 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.

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

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writers 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:
> > Seem like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > > I am sympathetic. Guys, what do you reckon?
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable timeframe.

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >>
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. 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 l91Gxtpr020623 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)
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)
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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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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
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.

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.

^L

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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END OF TERMS AND CONDITIONS

^L

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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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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!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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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...)

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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.

-- Nathan

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

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

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir
applications are also GPL-2 which imo is just wrong. it isn't the place of =
library to dictate to application writes what license they should be using. Thus LGPL-2.1 enters to fill this void.

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

------------------------------------------------------------
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

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate 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?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....
>
> My apologies for not chiming in in anything resembling a reasonable
timeframe.
I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

-a

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

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

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

-mike

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

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

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

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft 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 l91Gxtpr020623
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 11cOcX-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-56FBEFEB6E9F@crypticide.com>
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]
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

1.251 crash 1.3.1

1.251.1 Available under license:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
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signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

Version 2, June 1991

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

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

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"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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<OL TYPE="a">

<LI>The modified work must itself be a software library.

<P>
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charge to all third parties under the terms of this License.

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<LI>If a facility in the modified Library refers to a function or a
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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.

<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.)

</OL>

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

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

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<P>
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</OL>

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

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1.262 curl 7.29.0 :42.el7_4.1

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License Mixing with apps, libcurl and Third Party Libraries

=================================================================================================
libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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OpenSSL http://www.openssl.org/source/license.html

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GnuTLS  http://www.gnutls.org/

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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.

NSS     http://www.mozilla.org/projects/security/pki/nss/
Open Source Used In Enterprise Network Function Virtualization Infrastructure Service 3.11.1

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axTLS  http://axtls.sourceforge.net/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib   http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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

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

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fbopenssl
(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn  http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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the "copyright" line and a pointer to where the full notice is found.

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

This program is free software; you can redistribute it and/or modify
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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into 
proprietary programs. If your program is a subroutine library, you may 
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[I have snipped the snail mail address of the FSF because it has 
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Preamble

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1650
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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.

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

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

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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.

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

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

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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Preamble

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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1.264 cyrus-sasl 2.1.26 :21.el7

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1.295 derbyclient 10.4.1

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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**TERMS AND CONDITIONS**

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

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)
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1.301 dhclient 4.1.1 :34.P1.el6

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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>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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Ty Coon, President of Vice

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1.314 drbd84-utils 8.9.2-1.e6

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1.315 driverctl 0.95 :1.el7
1.315.1 Available under license:

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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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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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
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5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
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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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Public License instead of this License.

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

- trivial database library - private includes
-
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/*
 * fallocate - utility to use the fallocate system call
 *
 * Copyright (C) 2008 Red Hat, Inc. All rights reserved.
 * Written by Eric Sandeen <sandeen@redhat.com>
 *
 * cvtnum routine taken from xfsprogs,
 * Copyright (c) 2003-2005 Silicon Graphics, Inc.
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 */

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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

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

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

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

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

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

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

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

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

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

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

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/*

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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
-
** 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)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
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Gadi Oxman, August 1995

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1.356 eventemitter3 1.1.1

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Thomas Mangin <thomas.mangin@exa-networks.co.uk>

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1.358 expand-brackets 0.1.4

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1.370 fastinfoset 1.2.8

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*/

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

public interface EncodingAlgorithm {

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

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

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

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

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

}

1.371 faye-websocket 0.7.3

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1.373 filename-regex 2.0.0

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1.390 flute 1.3.0 :3.0Oo31.el6
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1.392 fontconfig 2.10.95 :11.el7

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1.396 for-in 0.1.4

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1.414 gauge 1.2.2

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1.415 gawk 4.0.2 :4.el7_3.1

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1.416 gaze 0.5.2

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

HISTORY -

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

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

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@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(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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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
", (int)(ROUNDED)))

#ifdef 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
", (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), 	".align %d
", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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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.

@item
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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.

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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:

@enumerate a
@item
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

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@enumerate a
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@end enumerate

@ifex
@end ifex
@end appendixsubsec

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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.

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

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

```plaintext
@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!

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# 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()

        # Skip licence files.
        'COPYING',
        'COPYING.LIB',
        'COPYING3',
        'COPYING3.LIB',
        'LICENSE',
        'rdir.texi',
        'gpl_v3.texi',
        'rdir-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',
        '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 (r'(Copyrigh\t(C|c)opyright
            [Cc]opyright\s+\((C|c)\)
            [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_ugn.texi).
'( + name +(?:\s? + name + *)?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', ',
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
        raise self.BadYear (string)
def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder and (holder not in self.holder_prefixes
                        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
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                 file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line
            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]
        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + \n')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)

    def o_this_year (self, option):
def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len(self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len(self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join(chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith(canon_dir):
                    count += 1
                    self.copyright.process_tree(dir, filter)
            if count == 0:
                self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)

#---------------------------------------------------------------

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):

def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.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')
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)
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 ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libc++', 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',
    'libc++',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libibm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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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;
        }

        StringBuilder sb = new StringBuilder(""");
        for (Tag tag : tags) {
            sb.append(tag.get）。
        }

        return sb.toString();
    }
}

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;
        }

        StringBuilder sb = new StringBuilder(""");
        for (Tag tag : tags) {
            sb.append(tag.get）。
        }

        return sb.toString();
    }
}
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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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
public abstract class Permission implements Guard, Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    public Permission(String name) {
        this.name = name;
    }

    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }

    public boolean implies(Permission other) {
        // Implementation
    }
}

* @status updated to 1.4

* Compatible with JDK 1.1+.

* This is the name assigned to this permission object.

* @param the name of the permission

* Create an instance with the specified name.

* @param name the permission name

* 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

* @throws SecurityException if the security check fails

* @see GuardedObject

* @see SecurityManager#checkPermission(Permission)

* This method tests whether this <code>Permission</code> implies that the

* specified <code>Permission</code> is also granted.
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

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

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

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

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a `<code>String</code>` representation of this
 * `<code>Permission</code>` object. This is in the format:
 * `<code>\( + getClass().getName() + ' ' + getName() + ' ' + getActions
 * \( + ')</code>`.
 *
 * @return this object as a `<code>String</code>`
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals('')))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is not the same as the class
 * 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 <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();

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* m4/ax_func_which_gethostbyname_r.m4

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

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its purpose remains meaningful.

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

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

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

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

We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{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 \texttt{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 \texttt{``work based on the library''} and a \texttt{``work that uses the library''}. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

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

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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

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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
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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.

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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.

@item
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.

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
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You must give prominent notice with each copy of the work that the
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this License. You must supply a copy of this License. If the work
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@item
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@item
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@item
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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@enumerate
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```
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```
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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.

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

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

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

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

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.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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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 = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * This method implements the <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
     * @throws SecurityException if the security check fails
     * @see GuardedObject
     * @see SecurityManager#checkPermission(Permission)
     */
    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }

    /**
     * This method tests whether this <code>Permission</code> implies that the
     * specified <code>Permission</code> is also granted.
     *
     * @param perm the <code>Permission</code> to test against
     */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

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

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

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 */
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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package java.security.acl;

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

/**
* This method returns this `<code.PERMISSION</code>` as a `<code.STRING</code>.
*
* @return A `<code.STRING</code>` representing this permission.
*/

`toString();`}

`#!/bin/sh`

`# Get modification time of a file or directory and pretty-print it.`

`scriptversion=2009-04-28.21; # UTC`

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# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ':
' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
        ''])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    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 FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',

])
# 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]+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w+\-\-\-\n
        # 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'\n            ')(\[Cc\]opyright\s+\[(C\[Cc\]\)\])'\n            ')(\[Cc\]opyright\s+%s'\n            ')(\[Cc\]opyright\s+\&copy;'\n            ')(\[Cc\]opyright\s+\@copyright{}\]'\n            '@set\s+\@copyright{}\[w-\-\+\]'\n        )
# 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_ugn.texi).
'(\s*\s*'+ name '+ (?:\s?'+ name + ')*)\s*')

# 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('#+[0-9]+|[^\s]+|;+[0-9]|//+|@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)
    return year

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'
```python
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
' % 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...
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
```python
i += 1
if i % 3 == 0 or i == len(self.dirs):
    sys.stdout.write(dir + '
')
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',  
        ])
        self.skip_extensions |= set([  
            # Maintained by the translation project.  
            '.po',  
        ])
        self.fossilised_files |= set([  
            # Old news won't be updated.  
            'ONEWS',  
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_extensions |= set([  
            # Don't change the tests, which could be woend by anyone.  
            '.c',  
            '.C',  
        ])

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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',
'libtlf',
)

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_fsfs = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsfs)
        self.add_package_author ('Free Software Foundation.', canon_fsfs)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsfs)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsfs)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsfs)
        self.add_package_author ('The Free Software Foundation', canon_fsfs)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsfs)
        self.add_package_author ('Software Foundation, Inc.', canon_fsfs)

        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 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 ('libdeccnumber')
# 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 ('libbitm')
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 (os.path.join ('libstdc++-v3', LibStdCxxFilter()))
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdeccnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libbitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()

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Version 3, 29 June 2007

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/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
    adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "t.byte"t"
#define ASM_SHORT "t.word"t"
#define ASM_LONG "t.long"t"
#define ASM_QUAD "t.quad"t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
   fprintf (FILE, "t.space "HOST_WIDE_INT_PRINT_UNSIGNED"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */
/* This says how to output an assembler line
to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (".comm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u
", (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
", (int)(ROUNDED)))

#define HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
   ( fputs (".comm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u
", (int)(ALIGNMENT)))
fprintf ((FILE), ",%u,%u
", (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), "/align %d
", (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

/* Formatted output to strings.

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- Adam Manthei <amanthei at redhat.com>
- A. J. Lewis <alewis at redhat.com>
- Alasdair G. Kergon <agk at redhat.com>
- Andrew Price <andy at andrewprice.me.uk>
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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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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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1.453 glob-base 0.3.0

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1.454 glob-parent 2.0.0

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1.455 glob-stream 4.1.1

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1.456 glob-stream 5.3.1

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1.457 glob-stream 3.1.18

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1.458 glob-watcher 0.0.6

1.458.1 Available under license:

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1.459 glob-watcher 0.0.8

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1.460 glob2base 0.0.12
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1.462 globalize-min.js 0.1.0
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1.464 globule 0.1.0

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1.465 glogg 1.0.0

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1.466 glusterfs 3.8.4 :18.4.el7.centos
1.466.1 Available under license :

From e054a627d7eaeede423bc25a6c1cc472b2526846 Mon Sep 17 00:00:00 2001
From: Poornima G <pgurusid@redhat.com>
Date: Wed, 24 Aug 2016 09:55:32 +0530
Subject: [PATCH 126/141] upcall: Add permission change flag to iatt flag

Currently IATT_UPDATE_FLAGS is (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE |
UP_TIMES | UP_ATIME). But it should also have UP_PERM and permission bits
are apart of IATT.

This change will have no effect on the existing users as
IATT_UPDATE_FLAGS is currently used only by md-cache. And the changes in
md-cache to consume cache invalidation is not part of any release yet.

Change-Id: I7efad44972add152f5f981d733fb8191dc7ef8ef
BUG: 1284873
Signed-off-by: Poornima G <pgurusid@redhat.com>
Reviewed-on: http://review.gluster.org/15301
NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
Smoke: Gluster Build System <jenkins@build.gluster.org>
Reviewed-by: Raghavendra G <rgowdapp@redhat.com>
Reviewed-by: Prashanth Pai <ppai@redhat.com>
Reviewed-by: Jeff Darcy <jdarcy@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/87039
Reviewed-by: Rajesh Joseph <rjoseph@redhat.com>
Tested-by: Rajesh Joseph <rjoseph@redhat.com>

---
libglusterfs/src/upcall-utils.h | 2 +-  
1 files changed, 1 insertions(+), 1 deletions(-)

diff --git a/libglusterfs/src/upcall-utils.h b/libglusterfs/src/upcall-utils.h
index f4b15e3..64571c5 100644
--- a/libglusterfs/src/upcall-utils.h
+++ b/libglusterfs/src/upcall-utils.h
@@ -53,7 +53,7 @@
 #define UP_NLINK_FLAGS          (UP_NLINK | UP_TIMES)
 #define IATT_UPDATE_FLAGS       (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | 
                              - UP_TIMES | UP_ATIME)
+                              UP_TIMES | UP_ATIME | UP_PERM)

typedef enum {
    GF_UPCALL_EVENT_NULL,
    --
1.7.1
From a2cb732a71d341edb65e4cdbf103a3fec35e8589 Mon Sep 17 00:00:00 2001
From: Susant Palai <spalai@redhat.com>
Date: Wed, 17 Aug 2016 15:10:04 +0530
Subject: [PATCH 72/86] cluster/dht: heal root permission post add-brick

Post add-brick event the new brick will have permission of 755 by default. If the root directory permission was other than 755, that does not get healed to the new brick leading to permission errors/inconsistencies.

For choosing source of attr heal we can trust the subvols which have layouts with latest ctime (as part of missing directory heal, we heal the proper attr). In case none of the subvols have layout, return ESTALE to retrigger a fresh lookup.

Note: This patch heals the permission of the root directories only. Since, permission healing of directory is not straight forward and required intrusive fix, those are not addressed here.

> Reviewed-on: http://review.gluster.org/15195
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

> Reviewed-on: http://review.gluster.org/15465
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

Change-Id: If894e3895d070d46b62d2452e52c1eaafcf56c29
BUG: 1294035
Signed-off-by: Susant Palai <spalai@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/84877
Reviewed-by: Atin Mukherjee <amukherj@redhat.com>
Tested-by: Atin Mukherjee <amukherj@redhat.com>

---
tests/bugs/distribute/bug-1368012.t |   50 ++++++++++++++++++++++++++++++++
xlators/cluster/dht/src/dht-common.c |   32 ++++++++++++++++++++++
xlators/cluster/dht/src/dht-selfheal.c |   16 +++++++++--
3 files changed, 93 insertions(+), 5 deletions(-)
create mode 100644 tests/bugs/distribute/bug-1368012.t

diff --git a/tests/bugs/distribute/bug-1368012.t b/tests/bugs/distribute/bug-1368012.t
new file mode 100644
index 0000000..f89314b
--- /dev/null
+++ b/tests/bugs/distribute/bug-1368012.t
@@ -0,0 +1,50 @@
+#!/bin/bash
+
+. $(dirname $0)/../../include.rc
+. $(dirname $0)/../../volume.rc
+
cleanup;
+
+function get_permission {
+        stat -c "%A" $1
+
+}## Start glusterd
+TEST glusterd;
+TEST pidof glusterd;
+TEST $CLI volume info;
+
+## Lets create volume
+TEST $CLI volume create $V0 $H0:/${V0}{1,2};
+
+## Verify volume is created
+EXPECT "$V0" volinfo_field $V0 'Volume Name';
+EXPECT 'Created' volinfo_field $V0 'Status';
+## Start volume and verify
+TEST $CLI volume start $V0;
+TEST $CLI volume set $V0 performance.stat-prefetch off
+EXPECT 'Started' volinfo_field $V0 'Status';
+TEST glusterfs -s $H0 --volfile-id=$V0 $M0
+
+## Test case: Add-brick
+##------------------------------------------------------------
+##change permission of both root
+TEST chmod 444 $M0

---
+ #store permission for comparison
+ TEST permission_root=`stat -c "%-A" $M0`
+ TEST echo $permission_root
+ #Add-brick
+ TEST scli volume add-brick $V0 $H0:/${V0}3
+
+ #Allow one lookup to happen
+ TEST pushd $M0
+ TEST ls
+ #Generate another lookup
+ echo 3 > /proc/sys/vm/drop_caches
+ TEST ls
+ #check root permission
+ EXPECT_WITHIN "5" $permission_root get_permission $M0
+ #check permission on the new-brick
+ EXPECT $permission_root get_permission /${V0}3
+ cleanup
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index 5fd0a16..2eb44a1 100644
  --- a/xlators/cluster/dht/src/dht-common.c
  +++ b/xlators/cluster/dht/src/dht-common.c
@@ -735,6 +735,27 @@ out:
    return ret;
 }

+int static
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
+{
+    if ((prot1->owner.read != prot2->owner.read) ||
+        (prot1->owner.write != prot2->owner.write) ||
+        (prot1->owner.exec != prot2->owner.exec) ||
+        (prot1->group.read != prot2->group.read) ||
+        (prot1->group.write != prot2->group.write) ||
+        (prot1->group.exec != prot2->group.exec) ||
+        (prot1->other.read != prot2->other.read) ||
+        (prot1->other.write != prot2->other.write) ||
+        (prot1->other.exec != prot2->other.exec) ||
+        (prot1->suid != prot2->suid) ||
+        (prot1->sgid != prot2->sgid) ||
+        (prot1->sticky != prot2->sticky)) {
+        return 1;
+    } else {
+        return 0;
+    }
+}
+int
dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this, int op_ret, int op_errno, 
@@ -856,14 +877,21 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this, 
                               stbuf->ia_ctime_nsec, 
                        stbuf->ia_ctime, 
                        stbuf->ia_ctime_nsec)) { 
+                                        /* Choose source */
                               local->prebuf.ia_gid = stbuf->ia_gid; 
                               local->prebuf.ia_uid = stbuf->ia_uid; 
+                                        
+                                        if (__is_root_gfid (stbuf->ia_gfid)) 
+                                               local->prebuf.ia_prot = stbuf->ia_prot; 
+                                       
+                                       if (__is_root_gfid (stbuf->ia_gfid)) 
+                                               local->prebuf.ia_prot = stbuf->ia_prot; 
} 
}
if (local->stbuf.ia_type != IA_INVAL) {
    if ((local->stbuf.ia_gid != stbuf->ia_gid) || 
        (local->stbuf.ia_uid != stbuf->ia_uid) || 
        (__is_root_gfid (stbuf->ia_gfid)) &&
        is_permission_different (&local->stbuf.ia_prot, 
        &stbuf->ia_prot)) { 
        local->need_selfheal = 1; 
    }
}
@@ -928,6 +956,8 @@ out:
    gf_uuid_copy (local->gfid, local->stbuf.ia_gfid); 
    local->stbuf.ia_gid = local->prebuf.ia_gid; 
    local->stbuf.ia_uid = local->prebuf.ia_uid; 
+                                        if (__is_root_gfid(local->stbuf.ia_gfid))
+                                                local->stbuf.ia_prot = local->prebuf.ia_prot;
    copy = create_frame (this, this->ctx->pool); 
    if (copy) { 
        copy_local = dht_local_init (copy, &local->loc, 
diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index 520a3f3..f43a235 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2240,11 +2240,19 @@ dht_dir_attr_heal (void *data)
 for (i = 0; i < call_cnt; i++) {
    subvol = conf->subvolumes[i];
-       if (!subvol || (subvol == dht_first_up_subvol (this)))
+       if (!subvol) continue;
-       ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
-                               (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
-                               NULL, NULL, NULL, NULL);
if (__is_root_gfid (local->stbuf.ia_gfid)) {
    ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
                          (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
                          NULL, NULL, NULL, NULL);
} else {
    ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
                          (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
                          NULL, NULL, NULL, NULL);
}

if (ret) {
    gf_uuid_unparse(local->loc.gfid, gfid);
}

1.7.1

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<one line to give the program's name and a brief idea of what it does.>
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1.467 gmp 6.0.0 :15.el7

1.467.1 Available under license:

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Version 3, 29 June 2007

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### 1.469 gnupg2 2.0.22 :4.el7

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Version 3, 29 June 2007

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## version 0.1
## By Mike Hamburg (Stanford University), 2009
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##
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Source Files
------------

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

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

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

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

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

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

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

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

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

src/libs/libxutil/DviChar.c
Macro Packages

--------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meref.me

Hyphenation Patterns

---------------

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

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

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

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

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

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

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

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

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

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$Id: LICENSE.txt,v 1.1.1.1 2004/07/01 13:59:13 jvanzyl Exp$

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

1.485 grub2 2.02 :0.65.el7.centos.2
1.485.1 Available under license:

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_FRAMEBUF	12
  #define NETBSD_BTINFO_USERCONFCOMMANDS 13
  #define NETBSD_BTINFO_EFI	14

  struct grub_netbsd_bootinfo
  {
    
#defines GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16
+struct grub_netbsd_btinfo_efi
+{
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
+#endif

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Version 3, 29 June 2007

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1.486 grubby 8.28 :23.el7
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1.487 gsm 1.0.13 :11.el7

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 */
package com.google.gson.internal;

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

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

    private Primitives() {
    }

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

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

    static {
        Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
        Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);

        add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
        add(primToWrap, wrapToPrim, byte.class, Byte.class);
        add(primToWrap, wrapToPrim, char.class, Character.class);
        add(primToWrap, wrapToPrim, double.class, Double.class);
        add(primToWrap, wrapToPrim, float.class, Float.class);
        add(primToWrap, wrapToPrim, int.class, Integer.class);
        add(primToWrap, wrapToPrim, long.class, Long.class);
        add(primToWrap, wrapToPrim, short.class, Short.class);
    }

}
add(primToWrap, wrapToPrim, void.class, Void.class);

PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward, Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
    forward.put(key, value);
    backward.put(value, key);
}

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

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

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

/**
* Returns the corresponding primitive type of \{@code type\} if it is a
* wrapper type; otherwise returns \{@code type\} itself. Idempotent.
* <pre>
*     unwrap(Integer.class) == int.class
*     unwrap(int.class) == int.class
*     unwrap(String.class) == String.class
* </pre>
*/

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

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1.509 gzip 1.5 :9.el7

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1.521 has-binary-data 0.1.3

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1.527 hawk 3.1.2

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with the Library, with the complete machine-readable “work that
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1.530 Hibernate JPA API 2.1

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1.532 hibernate-core 4.3.8-final

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1.550 hosted-git-info 2.1.4

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1.551 hostname 3.13 :3.el7

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1.554 http-proxy 1.13.2
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An almost complete rewrite of MySpell for use by the Mozilla project has been developed by David Einstein (Deinst@world.std.com). David and I are now working on parallel development tracks to help our respective projects (Mozilla and OpenOffice.org) and we will maintain full affix file and dictionary file compatibility and work on merging our versions of MySpell back into a single tree. David has been a significant help in improving MySpell.

Special thanks also go to La'aszlo' Ne'meth <nemethl@gyorsposta.hu> who is the author of the Hungarian dictionary and who developed and contributed the code to support compound words in MySpell and fixed numerous problems with the encoding.
* case conversion tables.

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

%.d: $(srctmp)/%.cpp
@echo "generating dependency information for $<"
@$W -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

1.570 ifplugd 0.28 :1.2.el7.centos

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1.583 ipaddr.js 1.0.5

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1.1

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1.1

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/*
 * @(#)ASCIIUtility.java 1.11 07/05/04
 */
package com.sun.mail.util;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.InputStream;
import java.io.IOException;
public class ASCIIUtility {

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

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

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

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

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

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

/**
 * Convert the bytes within the specified range of the given byte
 * array into a signed long in the given radix . The range extends
 * from <code>start</code> till, but not including <code>end</code>.<p>
 * Based on java.lang.Long.parseLong()
 */
public static long parseLong(byte[] b, int start, int end, int radix)
throws NumberFormatException {
    if (b == null)
        throw new NumberFormatException("null");
    long result = 0;
    boolean negative = false;
    int i = start;
    long limit;
    long multmin;
    int digit;

    if (end > start) {
        if (b[i] == '-') {
            negative = true;
            limit = Long.MIN_VALUE;
            i++;
        } else {
            limit = -Long.MAX_VALUE;
        }
    }
    if (b[i] >= '0' && b[i] <= '9') {
        digit = b[i] - '0';
        result = result * radix + digit;
        i++;
        if (negative) {
            if (result > limit / radix)
                return Integer.MIN_VALUE;
multmin = limit / radix;
if (i < end) {
    digit = Character.digit((char)b[i++], radix);
    if (digit < 0) {
        throw new NumberFormatException("illegal number: “ + toString(b, start, end) + ”");
    } else {
        result = -digit;
    }
    while (i < end) {
        // Accumulating negatively avoids surprises near MAX_VALUE
        digit = Character.digit((char)b[i++], radix);
        if (digit < 0) {
            throw new NumberFormatException("illegal number");
        } else {
            result *= radix;
            if (result < limit + digit) {
                throw new NumberFormatException("illegal number");
            }
            result -= digit;
        }
    }
} else {
    throw new NumberFormatException("illegal number");
}
if (negative) {
    if (i > start + 1) {
        return result;
    } else { /* Only got "." */
        throw new NumberFormatException("illegal number");
    }
} else {
    return -result;
}

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

/**
 * Convert the bytes within the specified range of the given byte
 * array into a String. The range extends from <code>start</code>
 * till, but not including <code>end</code>. <p>
 */
public static String toString(byte[] b, int start, int end) {
    int size = end - start;
    char[] theChars = new char[size];

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

    return new String(theChars);
}

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

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

    return new String(theChars);
}

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

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

public static byte[] getBytes(InputStream is) throws IOException {
    int len;
    int size = 1024;
    byte [] buf;
if (is instanceof ByteArrayInputStream) {
    size = is.available();
    buf = new byte[size];
    len = is.read(buf, 0, size);
} else {
    ByteArrayOutputStream bos = new ByteArrayOutputStream();
    buf = new byte[size];
    while ((len = is.read(buf, 0, size)) != -1)
        bos.write(buf, 0, len);
    buf = bos.toByteArray();
}
return buf;

1.674 javamail 1.4.6 :8.el7

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/**
 * Default implementation of the Attributes interface.
 *
 * This module, both source code and documentation, is in the 
 */

*p> There are two typical uses of this class:</p>
*
*<ol>
*<li>to take a persistent snapshot of an Attributes object
* in a {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 {AttributeListImpl} interface, with the 
* addition of manipulators so that the list can be modified or 
* reused.</p>
*
*<p>NamespaceSupport.java - generic Namespace support for SAX.
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 * A simple logging interface abstracting logging APIs. In order to be
 * instantiated successfully by LogFactory, classes that implement
 * this interface must have a constructor that takes a single String
 * parameter representing the "name" of this Log.</p>
 * 
 * The six logging levels used by Log are (in order):
 * trace (the least serious) debug info warn error fatal (the most serious)
 * The mapping of these log levels to the concepts used by the underlying
 * logging system is implementation dependent.
 * The implementation should ensure, though, that this ordering behaves
 * as expected.</p>
Performance is often a logging concern. By examining the appropriate property, a component can avoid expensive operations (producing information to be logged).

For example,

```java
if (log.isDebugEnabled()) {
    ... do something expensive ...
    log.debug(theResult);
}
```

Configuration of the underlying logging system will generally be done external to the Logging APIs, through whatever mechanism is supported by that system.

Please note that this interface is identical to that found in JCL 1.1.1.

@since 1.2
@author Scott Sanders
@author Rod Waldhoff
@version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

public void fatal(Object message, Throwable t);

}
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*/

1.710 jemalloc 3.6.0 :1.el7

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1.735 jnr-constants 0.8.5

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1.738 jnr-netdb 1.1.2

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/*jslint plusplus: true, nomen: true */
/*!
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*
* File:          jquery.dataTables.yadcf.js
* Version:       0.8.3
*
* Author:        Daniel Reznick
* Info:          https://github.com/vedmack/yadcf
* Contact:       vedmack@gmail.com
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1.755 jquery.validate.min.js 1.13

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require 'jruby/java/java_package_module_template'
require 'jruby/java/java_utilities'
require 'jruby/java/core_ext'
require 'jruby/java/java_ext'

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package org.jruby;

/**
 * An almost entirely useless interface for those objects that we _really_ want
 * to finalize.
 *
 * @author pldms
 *
 */
public interface Finalizable {
    public void finalize() throws Throwable;
}

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1.775 jul-to-slf4j 1.7.12

1.776 jul-to-slf4j 1.7.11

1.777 junit 4.11

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

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Jan Holmberg, <jan@artech.net>:

0 Memory framework
HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_trackPrimary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
- Extended VRRP framework to support floating priority.

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1.785 kernel 3.10.0 :862.11.6.el7.1

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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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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
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{
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  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
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}
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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
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for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@earhil.net>
for all the work for the FlexCopII chipset by B2C2, Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code, the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <sKrufky@mlk.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
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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AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorg.uku.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

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Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
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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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1.788 keyutils 1.5.8 :3.el7

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1.792 kmod 20 :15.el7_4.6

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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'/*.*?*/', '', line)
        line = line.strip()

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

        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        if line.strip() != '':
            code_seen = False
            nonlicense_seen = False
            in_comment = False
            warn(fname, ln, 'License in unexpected position')
            return False
        else:
            code_seen = False
            nonlicense_seen = False
            in_comment = False
    return True
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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  URL_ROOT:    '../',
  VERSION:     '1.15.1',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
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};
</script>
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```
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
```

g_compare_name
lib/gssapi/mechglue/g_context_time
lib/gssapi/mechglue/g_delete_sec_context
lib/gssapi/mechglue/g_dsp_name
lib/gssapi/mechglue/g_dsp_status
lib/gssapi/mechglue/g_dup_name
lib/gssapi/mechglue/g_exp_sec_context
lib/gssapi/mechglue/g_export_name
lib/gssapi/mechglue/g_glue
lib/gssapi/mechglue/g_imp_name
lib/gssapi/mechglue/g_imp_sec_context
lib/gssapi/mechglue/g_init_sec_context
lib/gssapi/mechglue/g_initialize
lib/gssapi/mechglue/g_inquire_context
lib/gssapi/mechglue/g_inquire_cred
lib/gssapi/mechglue/g_inquire_names
and the initial implementation of incremental propagation, including the following new or changed files:

```python
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/slave.c
slave/kproplog.c
</pre></div>

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```
.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
    lib/gssapi/mechglue/mglueP.h
    lib/gssapi/mechglue/oid_ops.c
    lib/gssapi/spnego/gssapiP_spnego.h
```
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more 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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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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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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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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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
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/*
 Simple buffer

 Basic buffer manipulation routines. Taken from ELAPI code.

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*/

#ifndef ELAPI_SIMPLEBUFFER_H
#define ELAPI_SIMPLEBUFFER_H

#include <stdint.h>

#ifndef EOK
#define EOK 0
#endif

/* Generic data structure for the buffer */
struct simplebuffer {
    unsigned char *buffer;
    uint32_t size;
    uint32_t length;
};

/* Function to free data */
void simplebuffer_free(struct simplebuffer *data);

/* Allocate data structure */
int simplebuffer_alloc(struct simplebuffer **data);

/* Function to add memory to the buffer */
int simplebuffer_grow(struct simplebuffer *data,
                      uint32_t len,
                      uint32_t block);

/* Function to add raw data to the end of the buffer.
 * Terminating 0 is not counted in length but appended
 * automatically.
 */
int simplebuffer_add_raw(struct simplebuffer *data,
                          void *data_in,
                          uint32_t len,
                          uint32_t block);

/* Function to add string to the buffer.*/
* Same as above just uses string as an argument. */

int simplebuffer_add_str(struct simplebuffer *data,
    const char *str,
    uint32_t len,
    uint32_t block);

/* Function to add CR to the buffer */
int simplebuffer_add_cr(struct simplebuffer *data);

/* Function to write data synchronously */
int simplebuffer_write(int fd,
    struct simplebuffer *data,
    uint32_t *left);

/* Get buffer */
const unsigned char *simplebuffer_get_buf(struct simplebuffer *data);

/* Get buffer */
void *simplebuffer_get_vbuf(struct simplebuffer *data);

/* Get length */
uint32_t simplebuffer_get_len(struct simplebuffer *data);

#endif

1.806 libcacard 2.5.2 :2.el7

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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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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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1.813 libdaemon 0.14 :7.el7
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References:
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Author: Ruben Rodriguez <ruben@trisquel.info>

--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
+++ db-5.3.21/src/crypto/mersenne/mt19937db.c
@@ -16,16 +16,27 @@
      /*   Coded by Takuji Nishimura, considering the suggestions by    */
      /* Topher Cooper and Marc Rieffel in July-Aug. 1997.              */
-     /* This library is free software under the Artistic license:       */
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-     /* For the verification of the code, its output sequence file      */
-     /* mt19937int.out is attached (2001/4/2)                          */
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1.817 libestr 0.1.9 :2.el7

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#
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#
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# Guess values for system-dependent variables and create Makefiles.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also 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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/* source disk to a destination disk. */
/* */

open Unix
open Printf

open Common_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline

module G = Guestfs

type tmp_place =
  | Directory of string
  | Block_device of string
  | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create
 * temporary files (including the potentially massive overlay file), we
 * need to catch SIGINT (^C) and exit cleanly so the temporary file
 * goes away. Note that we don't delete temporaries in the signal
 * handler. *)

let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* What should the output format be? If the user specified an
 * input format, use that, else detect it from the source image.
 *)

let output_format =
  match convert with
  | Some fmt -> fmt (* user specified output conversion *)
  | None ->
    match format with
    | Some fmt -> fmt (* user specified input format, use that *)
    | None ->
      (* Don't know, so we must autodetect. *)
      match (open_guestfs ())#disk_format indisk with
      | "unknown" ->
        error (f_"cannot detect input disk format; use the --format parameter")
      | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)

if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)

let tmp_place =
  match tmp_param with
  | None -> Directory Filename.temp_dir_name (* STMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub file 9 (String.length file - 9) in
if not (Sys.file_exists file) then
    error (f_"--tmp prebuilt:file: %s: file does not exist") file;
let g = open_guestfs () in
if g#disk_format file <> "qcow2" then
    error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
if not (g#disk_has_backing_file file) then
    error (f_"--tmp prebuilt:file: %s: file does not have backing file") file;
Prebuilt_file file
| Some path ->
    error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
| Directory tmpdir ->
    (* Get virtual size of the input disk. *)
    let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
debug "input disk virtual size is %Ld bytes (%s)"
    virtual_size (human_size virtual_size);

    let print_warning () =
        let free_space = StatVFS.free_space tmpdir in
        let extra_needed = virtual_size -^ free_space in
        if extra_needed > 0L then (    warning (f_"%
            There may not be enough free space on %s.
            You may need to set TMPDIR to point to a directory with more free space.

            Max needed: %s.  Free: %s.  May need another %s.

            Note this is an overestimate.  If the guest disk is full of data
            then not as much free space would be required.

            You can ignore this warning or change it to a hard failure using the
            --check-tmpdir=(ignore|continue|warn|fail) option.  See virt-sparify(1).

            %!"
        )
    end

    tmpdir (human_size virtual_size)
    (human_size free_space) (human_size extra_needed);
    true
) else false
in

match check_tmpdir with
| "Ignore" -> ()
| "Continue" -> ignore (print_warning ())

| `Warn ->
  if print_warning () then (
    eprintf "Press RETURN to continue or ^C to quit.\n%!");
  ignore (read_line ());
);
| `Fail ->
  if print_warning () then (
    eprintf "Exiting because --check-tmpdir=fail was set.\n%!");
    exit 2
  );
);

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
   | Directory tmpdir ->
     message (f_"Create overlay file in %s to protect source disk") tmpdir
   | Block_device device ->
     message (f_"Create overlay device %s to protect source disk") device
   | Prebuilt_file file ->
     message (f_"Using prebuilt file %s as overlay") file
   );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
  g#disk_create
   ~backingfile:indisk ?backingformat:format ~compat:"1.1"
    tmp "qcow2" Int64.minus_one
  in

  match tmp_place with
   | Directory temp_dir ->
     let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
      unlink_on_exit tmp;
      create tmp;
      tmp
   | Block_device device ->
     create device;
     device
   | Prebuilt_file file ->
     (* Don't create anything, use the prebuilt file as overlay. *)
      file in
      message (f_"Examine source disk");
(* Connect to libguestfs. *)
let g =
    let g = open_guestfs () in

(* Note that the temporary overlay disk is always qcow2 format. *)
g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
g#launch ();
g in

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
    g#user_cancel ();
    exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
* and selected swap partitions. *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
    let fs = g#canonical_device_name fs in
    List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_ignored lv g in

let is_readonly_btrfs_snapshot fs mp =
    try
        let is_btrfs = List.mem fs btrfs_filesystems in
        if is_btrfs then (try
            let vol_info = g#btrfs_subvolume_show mp in
            String.find (List.assoc "Flags" vol_info) "readonly" <> -1
        with _ -> false)
    with _ -> false
in
with G.Error _ -> false
  ) else false
with Not_found -> false
in

let is_readonly_device mp =
let statvfs = g#statvfs mp in
let flags = statvfs.G.flag in
(* 0x01 is ST_RDONLY in Linux' GNU libc. *)
flags <> -1_L && (flags &^ 0x1_L) <> 0_L
in

List.iter (fun fs ->
    if not (is_ignored fs) &&& not (is_read_only_lv fs) then (
      if List.mem fs zeroes then (
        message (f_"Zeroing %s") fs;

        g#zero_device fs
      ) else (  
        let mounted =
          try g#mount fs "/"; true
          with _ -> false in

        if mounted then (  
          if is_readonly_btrfs_snapshot fs "/" then (  
            info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
          ) else if is_readonly_device "/" then (  
            info (f_"Skipping %s, as it is a read-only device.") fs;
          ) else (  
            message (f_"Fill free space in %s with zero") fs;
            g#zero_free_space "/"
          )
        )
      )
    ) else (  
      let is_linux_x86_swap =  
        (* Look for the signature for Linux swap on i386.  
        * Location depends on page size, so it definitely won't 
        * work on non-x86 architectures (eg. on PPC, page size is 
        * 64K).  Also this avoids hibernated swap space: in those, 
        * the signature is moved to a different location.  
        *)
        try g#pread_device fs 10 4086L = "SWAPSPACE2"
        with _ -> false in

      if is_linux_x86_swap then (  
        message (f_"Clearing Linux swap on %s") fs;

        (* Don't use mkswap.  Just preserve the header containing
let header = g#pread_device fs 4096 0L in
  g#zero_device fs;
if g#pwrite_device fs header 0L <> 4096 then
  error (f_"pwrite: short write restoring swap partition header")
)
)
);

  g#umount_all ()
)
)
)
)
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (fun vg ->
  if not (List.mem vg ignores) then (
    let lvname = String.random8 () in
    let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in
    let created =
      try g#lvcreate_free lvname vg 100; true
      with _ -> false in

    if created then (message (f_"Fill free space in volgroup %s with zero") vg;

      g#zero_device lvdev;
      g#sync ();
      g#lvremove lvdev
    )
  )
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
message ("Copy to destination and make sparse");

let cmd =
    sprintf "qemu-img convert -f qcow2 -O %s %s %s %s %s"
        (quote output_format)
        (if compress then " -c" else "")
        (match option with
            | None -> ""
            | Some option -> " -o " ^ quote option)
        (quote overlaydisk) (quote (gemu_input_filename outdisk)) in
    if shell_command cmd <> 0 then
        error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
    info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")

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1.834 libjpeg-turbo 1.2.1 :3.el6_5

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

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DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS  Software *not* to get.
TO DO  Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt  How to configure and install the IJG software.
usage.txt  Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1  Unix-style man pages for programs (same info as usage.txt).
wizard.txt  Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt  How to use the JPEG library in your own programs.
example.c  Sample code for calling the JPEG library.
structure.txt  Overview of the JPEG library's internal structure.
filelist.txt  Road map of IJG files.
coderules.txt  Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

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

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

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

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

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

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

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

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of any program generated from the IJG code, this does not limit you more than 
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The Unix configuration script "configure" was produced with GNU Autoconf. 
It is copyright by the Free Software Foundation but is freely distributable. 
The same holds for its supporting scripts (config.guess, config.sub, 
lmmain.sh). Another support script, install-sh, is copyright by X Consortium
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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
==========

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.iijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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


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

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsr8d.zip.


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FILE FORMAT WARS

The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

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

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copy of the library already present on the user's computer system,
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That's all there is to it!

1.838 libnetfilter_conntrack 1.0.6 :1.el7_3

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

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1.840 libnfsidmap 0.25 :17.el7

1.840.1 Available under license:

This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on Fri, 6 Aug 2004 16:10:43 -0400.

The latest version can always be found at http://www.citi.umich.edu/projects/nfsv4/linux/

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Marius Aamodt Eriksen <marius@umich.edu>
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1.841 libnl3 3.2.28 :4.el7

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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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
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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a) Accompany the work with the complete corresponding
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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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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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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Gadi Oxman, August 1995

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#! /bin/sh

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

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

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

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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'0
23-June-2007

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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DAMAGE.
1.861 libssh 0.7.1 :3.el7

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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

#ifndef LIBSSH2_PUBLICKEY_H
#define LIBSSH2_PUBLICKEY_H 1

#include "libssh2.h"

typedef struct _LIBSSH2_PUBLICKEY               LIBSSH2_PUBLICKEY;

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

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

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

#ifdef __cplusplus
extern "C" {
#endif

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

#ifdef __cplusplus
}
#endif
LIBSSH2_API int libssh2_publickey_add_ex(LIBSSH2_PUBLICKEY *pkey,  
    const unsigned char *name,  
    unsigned long name_len,  
    const unsigned char *blob,  
    unsigned long blob_len, char overwrite,  
    unsigned long num_attrs,  
    const libssh2_publickey_attribute attrs[]);

#define libssh2_publickey_add(pkey, name, blob, blob_len, overwrite, 
    numAttrs, attrs)                         
    libssh2_publickey_add_ex((pkey), (name), strlen(name), (blob), (blob_len), 
    (overwrite), (numAttrs), (attrs))

LIBSSH2_API int libssh2_publickey_remove_ex(LIBSSH2_PUBLICKEY *pkey,  
    const unsigned char *name,  
    unsigned long name_len,  
    const unsigned char *blob,  
    unsigned long blob_len);

#define libssh2_publickey_remove(pkey, name, blob, blob_len) 
    libssh2_publickey_remove_ex((pkey), (name), strlen(name), (blob), (blob_len))

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

LIBSSH2_API void libssh2_publickey_list_free(LIBSSH2_PUBLICKEY *pkey,  
    libssh2_publickey_list *pkey_list);

LIBSSH2_API int libssh2_publickey_shutdown(LIBSSH2_PUBLICKEY *pkey);

#else /* ifndef: LIBSSH2_PUBLICKEY_H */

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*/

1.864 libtalloc 2.1.9 :1.el7

1.865 libtasn1 4.10 :1.el7

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

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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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
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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.

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

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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.)

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1.881 libvorbis 1.3.3 :8.el7

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1.882 libX11 1.6.5 :1.el7

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<marineau@genie.uottawa.ca>
<Holger.Veit@gmd.de>

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   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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1.902 libxml2 2.9.1 :6.el7_2.3

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1.912 libyaml 0.1.3 :4.el6_6

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1.913 liftoff 2.2.0

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1.916 lksctp-tools 1.0.17 :2.el7
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```
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```
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```

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1.918 lm_sensors 3.1.1 :17.el6

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

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  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
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* 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.
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  Support for multiple configuration files in libsensors.

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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.
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  Original author of sensord.
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* 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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Isaac Z. Schlueter <i@izs.me>
Brian Cottingham <spiffytech@gmail.com>
Carlos Brito Lage <carlos@carloslage.net>
Jesse Dailey <jesse.dailey@gmail.com>
Kevin O'Hara <kevinohara80@gmail.com>
Marco Rogers <marco.rogers@gmail.com>
Mark Cavage <mcavage@gmail.com>
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1.1004 mariadb 5.5.56 :2.el7

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The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/

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#################################################################
#mysql-test\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/ #
--echo '#---------------------BS_STVARS_040_01----------------------#'
# Displaying default value #
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--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 '#---------------------------------------------------------------------#'
# Check if license can be accessed with and without @@ sign #
#---------------------------------------------------------------------#
```

```
SELECT COUNT(@@license);
--echo 1 Expected
```

```
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'
```

```
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'
```

```
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
```

```
SELECT license = @@SESSION.license;
--echo Expected error 'Read only variable'
```

```
--echo '#---------------------------------------------------------------------#'
```

```
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'

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

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 *  * 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]
 * 
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 * 
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<h1>Mesa Component Licenses</h1>

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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

1.1015 methods 1.1.0
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(The MIT License)

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1.1016 microcode_ctl 2.1 :22.2.el7

1.1017 microcode_ctl 1.17 :14.el6

1.1017.1 Available under license:

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1.1018 micromatch 2.3.5

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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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
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contains portions of the Library), rather than a "work that uses the
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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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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.
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6. As an exception to the Sections above, you may also combine or
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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:

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

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

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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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 *
 * PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
 */

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/*
* crypto/des/destest.c */
/*
*/


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package io.netty.util.internal.chmv8;

import java.util.concurrent.RecursiveAction;

/**
 * A {@link ForkJoinTask} with a completion action performed when
 * triggered and there are no remaining pending actions.
 * CountedCompleters are in general more robust in the
 * presence of subtask stalls and blockage than are other forms of
 * ForkJoinTasks, but are less intuitive to program. Uses of
 * CountedCompleter are similar to those of other completion based
 * components (such as {@link java.nio.channels.CompletionHandler})
*/
* except that multiple <em>pending</em> completions may be necessary
* to trigger the completion action [@link #onCompletion(CountedCompleter)],
* not just one.
* Unless initialized otherwise, the [@linkplain getPendingCount pending
* count] starts at zero, but may be (atomically) changed using
* methods [@link #setPendingCount], [@link #addToPendingCount], and
* [@link #compareAndSetPendingCount]. Upon invocation of [@link
* #tryComplete], if the pending action count is nonzero, it is
* decremented; otherwise, the completion action is performed, and if
* this completer itself has a completer, the process is continued
* with its completer. As is the case with related synchronization
* components such as [@link java.util.concurrent.Phaser Phaser] and
* [@link java.util.concurrent.Semaphore Semaphore], these methods
* affect only internal counts; they do not establish any further
* internal bookkeeping. In particular, the identities of pending
* tasks are not maintained. As illustrated below, you can create
* subclasses that do record some or all pending tasks or their
* results when needed. As illustrated below, utility methods
* supporting customization of completion traversals are also
* provided. However, because CountedCompleters provide only basic
* synchronization mechanisms, it may be useful to create further
* abstract subclasses that maintain linkages, fields, and additional
* support methods appropriate for a set of related usages.
*
* A concrete CountedCompleter class must define method [@link
* #compute], that should in most cases (as illustrated below), invoke
* [@code tryComplete()] once before returning. The class may also
* optionally override method [@link #onCompletion(CountedCompleter)]
* to perform an action upon normal completion, and method
* [@link #onExceptionalCompletion(Throwable, CountedCompleter)] to
* perform an action upon any exception.
*
* CountedCompleters most often do not bear results, in which case
* they are normally declared as [@code CountedCompleter<Void>], and
* will always return [@code null] as a result value. In other cases,
* you should override method [@link #getRawResult] to provide a
* result from [@code join()], invoke(), and related methods. In
* general, this method should return the value of a field (or a
* function of one or more fields) of the CountedCompleter object that
* holds the result upon completion. Method [@link #setRawResult] by
* default plays no role in CountedCompleters. It is possible, but
* rarely applicable, to override this method to maintain other
* objects or fields holding result data.
*
* A CountedCompleter that does not itself have a completer (i.e.,
* one for which [@link #getCompleter] returns [@code null]) can be
* used as a regular ForkJoinTask with this added functionality.
* However, any completer that in turn has another completer serves
* only as an internal helper for other computations, so its own task
* status (as reported in methods such as {@link ForkJoinTask#isDone})
* is arbitrary; this status changes only upon explicit invocations of
* {@link #complete}, {@link ForkJoinTask#cancel},
* {@link ForkJoinTask#completeExceptionally(Throwable)} or upon
* exceptional completion of method {@code compute}. Upon any
* exceptional completion, the exception may be relayed to a task's
* completer (and its completer, and so on), if one exists and it has
* not otherwise already completed. Similarly, cancelling an internal
* CountedCompleter has only a local effect on that completer, so is
* not often useful.
*
* <p><b>Sample Usages.</b>
* <p><b>Parallel recursive decomposition.</b> CountedCompleters may
* be arranged in trees similar to those often used with {
* RecursiveAction}s, although the constructions involved in setting
* them up typically vary. Here, the completer of each task is its
* parent in the computation tree. Even though they entail a bit more
* bookkeeping, CountedCompleters may be better choices when applying
* a possibly time-consuming operation (that cannot be further
* subdivided) to each element of an array or collection; especially
* when the operation takes a significantly different amount of time
* to complete for some elements than others, either because of
* intrinsic variation (for example I/O) or auxiliary effects such as
* garbage collection. Because CountedCompleters provide their own
* continuations, other threads need not block waiting to perform
* them.
*
* <p>For example, here is an initial version of a class that uses
* divide-by-two recursive decomposition to divide work into single
* pieces (leaf tasks). Even when work is split into individual calls,
* tree-based techniques are usually preferable to directly forking
* leaf tasks, because they reduce inter-thread communication and
* improve load balancing. In the recursive case, the second of each
* pair of subtasks to finish triggers completion of its parent
* (because no result combination is performed, the default no-op
* implementation of method {@code onCompletion} is not overridden).
* A static utility method sets up the base task and invokes it
* (here, implicitly using the { @link ForkJoinPool#commonPool()}).
* *
* <pre> { @code
* class MyOperation<E> { void apply(E e) { ... } }
* *
* class ForEach<E> extends CountedCompleter<Void> {
* *
* public static <E> void forEach(E[] array, MyOperation<E> op) {
*   new ForEach<E>(null, array, op, 0, array.length).invoke();
* </pre>
* }  
*  
* final E[] array; final MyOperation<E> op; final int lo, hi;  
* ForEach(CountedCompleter<?, E> p, E[] array, MyOperation<E> op, int lo, int hi) {  
* super(p);  
* this.array = array; this.op = op; this.lo = lo; this.hi = hi;  
* }  
*  
* public void compute() { // version 1  
* if (hi - lo >= 2) {  
* int mid = (lo + hi) >>> 1;  
* setPendingCount(2); // must set pending count before fork  
* new ForEach(this, array, op, mid, hi).fork(); // right child  
* new ForEach(this, array, op, lo, mid).fork(); // left child  
* }  
* else if (hi > lo)  
* op.apply(array[lo]);  
* tryComplete();  
* }  
* } </pre> 
*  
* This design can be improved by noticing that in the recursive case,  
* the task has nothing to do after forking its right task, so can  
* directly invoke its left task before returning. (This is an analog  
* of tail recursion removal.) Also, because the task returns upon  
* executing its left task (rather than falling through to invoke  
* {.@code tryComplete}.) the pending count is set to one:  
*  
* {.@code}  
* class ForEach<E> ...  
* public void compute() { // version 2  
* if (hi - lo >= 2) {  
* int mid = (lo + hi) >>> 1;  
* setPendingCount(1); // only one pending  
* new ForEach(this, array, op, mid, hi).fork(); // right child  
* new ForEach(this, array, op, lo, mid).compute(); // direct invoke  
* }  
* else {  
* if (hi > lo)  
* op.apply(array[lo]);  
* tryComplete();  
* }  
* }  
* } </pre> 
*  
* As a further improvement, notice that the left task need not even exist.  
* Instead of creating a new one, we can iterate using the original task,  
* and add a pending count for each fork. Additionally, because no task
* in this tree implements an [@link #onCompletion(CountedCompleter)] method, * [@code tryComplete()] can be replaced with [@link propagateCompletion]. * 
* 
* <pre>[@code
* class ForEach<E> ... 
*   public void compute() { // version 3 
*     int l = lo, h = hi;
*     while (h - l >= 2) {
*       int mid = (l + h) >>> 1;
*       addToPendingCount(1);
*       new ForEach(this, array, op, mid, h).fork(); // right child 
*       h = mid;
*     }
*     if (h > l)
*       op.apply(array[h]);
*     propagateCompletion();
*   }
* }</pre>
* 
* Additional improvements of such classes might entail precomputing 
* pending counts so that they can be established in constructors, 
* specializing classes for leaf steps, subdividing by say, four, 
* instead of two per iteration, and using an adaptive threshold 
* instead of always subdividing down to single elements. * 
* <p><b>Searching.</b> A tree of CountedCompleters can search for a 
* value or property in different parts of a data structure, and 
* report a result in an [@link java.util.concurrent.atomic.AtomicReference AtomicReference] as 
* soon as one is found. The others can poll the result to avoid 
* unnecessary work. (You could additionally [@plain #cancel 
* cancel] other tasks, but it is usually simpler and more efficient 
* to just let them notice that the result is set and if so skip 
* further processing.) Illustrating again with an array using full 
* partitioning (again, in practice, leaf tasks will almost always 
* process more than one element): 
* 
* <pre>[@code
* class Searcher<E> extends CountedCompleter<E> {
*   final E[] array; final AtomicReference<E> result; final int lo, hi;
*   Searcher(CountedCompleter<?> p, E[] array, AtomicReference<E> result, int lo, int hi) {
*     super(p);
*     this.array = array; this.result = result; this.lo = lo; this.hi = hi;
*   }
*   public E getRawResult() { return result.get(); }
*   public void compute() { // similar to ForEach version 3 
*     int l = lo, h = hi;
*     while (result.get() == null && h >= l) 
*   }
* </pre>
if (h - l >= 2) {
    int mid = (l + h) >>> 1;
    addToPendingCount(1);
    new Searcher(this, array, result, mid, h).fork();
    h = mid;
} else {
    E x = array[l];
    if (matches(x) && result.compareAndSet(null, x))
        quietlyCompleteRoot(); // root task is now joinable
    break;
}
tryComplete(); // normally complete whether or not found
}
boolean matches(E e) { ... } // return true if found
*
public static <E> E search(E[] array) {
    return new Searcher<E>(null, array, new AtomicReference<E>(), 0, array.length).invoke();
}
*/
*
In this example, as well as others in which tasks have no other
* effects except to compareAndSet a common result, the trailing
* unconditional invocation of { @code tryComplete } could be made
* conditional ( { @code if (result.get() == null) tryComplete(); } )
* because no further bookkeeping is required to manage completions
* once the root task completes.
*
*<b>Recording subtasks.</b> CountedCompleter tasks that combine
* results of multiple subtasks usually need to access these results
* in method { @link #onCompletion(CountedCompleter) }. As illustrated in the following
* class (that performs a simplified form of map-reduce where mappings
* and reductions are all of type { @code E }), one way to do this in
* divide and conquer designs is to have each subtask record its
* sibling, so that it can be accessed in method { @code onCompletion }.
* This technique applies to reductions in which the order of
* combining left and right results does not matter; ordered
* reductions require explicit left/right designations. Variants of
* other streamlinings seen in the above examples may also apply.
*
*<pre>[@code
* class MyMapper<E> { E apply(E v) { ... } }
* class MyReducer<E> { E apply(E x, E y) { ... } }
* class MapReducer<E> extends CountedCompleter<E> {
*   final E[] array; final MyMapper<E> mapper;
*   final MyReducer<E> reducer; final int lo, hi;
*   MapReducer<E> sibling;
* </pre>
E result;
MapReducer(CountedCompleter<? p, E[] array, MyMapper<E> mapper,
    MyReducer<E> reducer, int lo, int hi) {
    super(p);
    this.array = array; this.mapper = mapper;
    this.reducer = reducer; this.lo = lo; this.hi = hi;
}
public void compute() {
    if (hi - lo >= 2) {
        int mid = (lo + hi) >>> 1;
        MapReducer<E> left = new MapReducer(this, array, mapper, reducer, lo, mid);
        MapReducer<E> right = new MapReducer(this, array, mapper, reducer, mid, hi);
        left.sibling = right;
        right.sibling = left;
        setPendingCount(1); // only right is pending
        right.fork();
        left.compute(); // directly execute left
    } else {
        if (hi > lo)
            result = mapper.apply(array[lo]);
        tryComplete();
    }
}
public void onCompletion(CountedCompleter<?> caller) {
    if (caller != this) {
        MapReducer<E> child = (MapReducer<E>)caller;
        MapReducer<E> sib = child.sibling;
        if (sib == null || sib.result == null)
            result = child.result;
        else
            result = reducer.apply(child.result, sib.result);
    }
}
public E getRawResult() { return result; }

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

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

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

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

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

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

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

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

@since 1.8
@author Doug Lea

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

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

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

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

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

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

/**
 * Performs an action when method [@link #tryComplete] is invoked
 * and the pending count is zero, or when the unconditional
 * method [@link #complete] is invoked. By default, this method
 * does nothing. You can distinguish cases by checking the
 * identity of the given caller argument. If not equal to [@code
 * this], then it is typically a subtask that may contain results
 * (and/or links to other results) to combine.
 *
 * @param caller the task invoking this method (which may
 * be this task itself)
 */
public void onCompletion(CountedCompleter<? super Completer> caller) {
}

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

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

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

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

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

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

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

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

/**
 * If the pending count is nonzero, decrements the count;
 * otherwise invokes [ @link #onCompletion(CountedCompleter)]
 * and then similarly tries to complete this task's completer,
 * if one exists, else marks this task as complete.

public final void tryComplete() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            a.onCompletion(s);
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        } else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
}

/**
 * Equivalent to {@link #tryComplete} but does not invoke {@link
 * #onCompletion(CountedCompleter)} along the completion path:
 * If the pending count is nonzero, decrements the count;
 * otherwise, similarly tries to complete this task's completer, if
 * one exists, else marks this task as complete. This method may be
 * useful in cases where {@code onCompletion} should not, or need
 * not, be invoked for each completer in a computation.
 */
public final void propagateCompletion() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        } else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
}

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

public void complete(T rawResult) {
    CountedCompleter<? extends T> p;
    setRawResult(rawResult);
    onCompletion(this);
    quietlyComplete();
    if ((p = completer) != null)
        p.tryComplete();
}

/**
 * If this task's pending count is zero, returns this task;
 * otherwise decrements its pending count and returns [ @code
 * null]. This method is designed to be used with [ @link
 * #nextComplete] in completion traversal loops.
 *  *
 * @return this task, if pending count was zero, else [ @code null]
 * */

public final CountedCompleter<? extends T> firstComplete() {
    for (int c;;) {
        if ((c = pending) == 0)
            return this;
        else if (U.compareAndSwapInt(this, PENDING, c, c - 1))
            return null;
    }
}

/**
 * If this task does not have a completer, invokes [ @link
 * ForkJoinTask#quietlyComplete} and returns [ @code null]. Or, if
 * the completer's pending count is non-zero, decrements that
 * pending count and returns [ @code null]. Otherwise, returns the
 * completer. This method can be used as part of a completion
 * traversal loop for homogeneous task hierarchies:
 * *
 * <pre> [ @code
 * for (CountedCompleter<? extends T> c = firstComplete();
 * c != null;
 */
public final CountedCompleter<?> nextComplete() {
    CountedCompleter<?> p;
    if ((p = completer) != null)
        return p.firstComplete();
    else {
        quietlyComplete();
        return null;
    }
}

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

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

/**
 * Implements execution conventions for CountedCompleters.
 */
protected final boolean exec() {
    compute();
    return false;
}
/**
 * Returns the result of the computation. By default
 * returns [@code null], which is appropriate for [@code Void]
 * actions, but in other cases should be overridden, almost
 * always to return a field or function of a field that
 * holds the result upon completion.
 *
 * @return the result of the computation
 */

public T getRawResult() { return null; }

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

protected void setRawResult(T t) { }

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

/**
 * Replace with a simple call to Unsafe.getUnsafe when integrating
 * into a jdk.
 *
 * @return a sun.misc.Unsafe
 */

private static sun.misc.Unsafe getUnsafe() {
    try {
        return sun.misc.Unsafe.getUnsafe();
    } catch (SecurityException tryReflectionInstead) {} 
    try {
        return java.security.AccessController.doPrivileged
                        (new java.security.PrivilegedExceptionAction<brm.mall.Unsafe>() {
                            public brm.mall.Unsafe run() throws Exception {

                        })
                    .getUnsaf
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Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
for (java.lang.reflect.Field f : k.getDeclaredFields()) {
    f.setAccessible(true);
    Object x = f.get(null);
    if (k.isInstance(x))
        return k.cast(x);
}
throw new NoSuchFieldError("the Unsafe");
}
}

} catch (java.security.PrivilegedActionException e) {
    throw new RuntimeException("Could not initialize intrinsics",
    e.getCause());
}
}

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 */

package io.netty.util.concurrent;

import java.util.concurrent.TimeUnit;

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

    private final EventExecutor executor;

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

    }
this.executor = executor;
}

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

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

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

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

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

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

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

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

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

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

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

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

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

@Override
public boolean isDone() {

return true;
}

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

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

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

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*/

package io.netty.util;

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

    private static final long serialVersionUID = -2507492394288153468L;

    public IllegalReferenceCountException() { }

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

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

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

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

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

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 */

package io.netty.channel;

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

/**
 * [@link ChannelInboundHandlerAdapter] which allows to explicit only handle a specific type of messages.
 *
 * For example here is an implementation which only handle [link String} messages.
 *
 * <pre>
 * public class StringHandler extends
 * [SimpleChannelInboundHandler afterwards]<String>
 */
public abstract class SimpleChannelInboundHandler<I> extends ChannelInboundHandlerAdapter {

    private final TypeParameterMatcher matcher;
    private final boolean autoRelease;

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

    /**
     * Create a new instance which will try to detect the types to match out of the type parameter of the class.
     *
     * @param autoRelease   {@code true} if handled messages should be released automatically by pass them to
     *                      {@link ReferenceCountUtil#release(Object)}.  
     */
    protected SimpleChannelInboundHandler(boolean autoRelease) {
        matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");
        this.autoRelease = autoRelease;
    }

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

    /**
     * Create a new instance
protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType, boolean autoRelease) {
    matcher = TypeParameterMatcher.get(inboundMessageType);
    this.autoRelease = autoRelease;
}

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

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

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

protected abstract void channelRead0(ChannelHandlerContext ctx, I msg) throws Exception;
}
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*/
package io.netty.channel;

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

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

    private final Channel channel;

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

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

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

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

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

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

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

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

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

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

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

@override
public Void getNow() {
    return null;
}
}

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*/
package io.netty.buffer;

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

/**
 * A derived buffer which simply forwards all data access requests to its
 * parent. It is recommended to use `ByteBuf#duplicate()` instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuf extends AbstractDerivedByteBuf {
    private final ByteBuf buffer;

    private final ByteBuf buffer;
public DuplicatedByteBuf(ByteBuf buffer) {
    super(buffer.maxCapacity());

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@Override
public short getShort(int index) {
    return _getShort(index);
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 */
package io.netty.buffer;

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

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

private final ByteBuf buffer;
private final int adjustment;
private final int length;

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

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

    this.length = length;

    writerIndex(length);
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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package io.netty.handler.codec.marshalling;

import org.jboss.marshalling.ByteInput;

import java.io.IOException;

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

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

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

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

        this.input = input;
        this.limit = limit;
    }

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

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

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

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

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

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

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

/**
 * Exception that will get thrown if the { @link Object} is to big to unmarshall
 *
 */
static final class TooBigObjectException extends IOException {
    private static final long serialVersionUID = 1L;
    private static final long serialVersionUID = 1L;
    private static final long serialVersionUID = 1L;
    private static final long serialVersionUID = 1L;
    private static final long serialVersionUID = 1L;
package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

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

private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

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

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

    // Further processing code...

}
frag = Unpooled.EMPTY_BUFFER;
}

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

package io.netty.handler.codec;
import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;

/**
 * A set of commonly used delimiters for {@link DelimiterBasedFrameDecoder}.
 */
public final class Delimiters {

/*
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 */
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* version 2.0 (the "License"); you may not use this file except in compliance
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* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
package io.netty.handler.codec;
public static ByteBuf[] nulDelimiter() {
    return new ByteBuf[] {
        Unpooled.wrappedBuffer(new byte[] { 0 })
    };
}

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

private Delimiters() {
    // Unused
}

package io.netty.handler.codec;

import io.netty.buffer.ByteBuf;
import io.netty.channel.ChannelHandlerContext;
import java.util.List;

import io.netty.buffer.ByteBuf;
import io.netty.channel.ChannelHandlerContext;
import java.util.List;

import java.util.List;
* A decoder that splits the received [@link ByteBuf]s by one or more 
* delimiters. It is particularly useful for decoding the frames which ends 
* with a delimiter such as [@link Delimiters#nulDelimiter() NUL] or 
* [@link plain Delimiters#lineDelimiter() newline characters].

* * <h3>Predefined delimiters</h3>*  
* * [@link Delimiters] defines frequently used delimiters for convenience' sake.
* *
* * <h3>Specifying more than one delimiter</h3>*  
* * [@link DelimiterBasedFrameDecoder] allows you to specify more than one 
* delimiter. If more than one delimiter is found in the buffer, it chooses 
* the delimiter which produces the shortest frame. For example, if you have 
* the following data in the buffer:
* *
* * +--------------+
* | ABC\nDEF\n   |
* +--------------+
* *
* * a [@link DelimiterBasedFrameDecoder]({@link Delimiters#lineDelimiter()} Delimiters.lineDelimiter())
* * will choose [@code \n] as the first delimiter and produce two frames:
* *
* * +-------+
* | ABC | DEF |
* +-------+
* *
* * rather than incorrectly choosing [@code \v\n] as the first delimiter:
* *
* * +-------+
* | ABC\nDEF |
* +-------+
* *
* */

public class DelimiterBasedFrameDecoder extends ByteToMessageDecoder {

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

  /**
   * Creates a new instance.
   */
public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf delimiter) {
    this(maxFrameLength, true, delimiter);
}

public DelimiterBasedFrameDecoder(
        int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, true, delimiter);
}

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

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

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

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

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

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

@Override
protected final void decode(ChannelHandlerContext ctx, ByteBuf in, List<Object> out) throws Exception {

}
Object decoded = decode(ctx, in);
if (decoded != null) {
    out.add(decoded);
}
}

/**
 * Create a frame out of the {@link ByteBuf} and return it.
 *
 * @param ctx the {@link ChannelHandlerContext} which this {@link ByteToMessageDecoder} belongs to
 * @param buffer the {@link ByteBuf} from which to read data
 * @return frame the {@link ByteBuf} which represent the frame or @code null} if no frame could be created.
 */
protected Object decode(ChannelHandlerContext ctx, ByteBuf buffer) throws Exception {
    if (lineBasedDecoder != null) {
        return lineBasedDecoder.decode(ctx, buffer);
    }
    // Try all delimiters and choose the delimiter which yields the shortest frame.
    int minFrameLength = Integer.MAX_VALUE;
    ByteBuf minDelim = null;
    for (ByteBuf delim: delimiters) {
        int frameLength = indexOf(buffer, delim);
        if (frameLength >= 0 && frameLength < minFrameLength) {
            minFrameLength = frameLength;
            minDelim = delim;
        }
    }
    if (minDelim != null) {
        int minDelimLength = minDelim.capacity();
        ByteBuf frame;
        if (discardingTooLongFrame) {
            // We've just finished discarding a very large frame.
            // Go back to the initial state.
            discardingTooLongFrame = false;
            buffer.skipBytes(minFrameLength + minDelimLength);
            int tooLongFrameLength = this.tooLongFrameLength;
            this.tooLongFrameLength = 0;
            if (!failFast) {
                fail(ctx, tooLongFrameLength);
            }
            return null;
        }
    }
if (minFrameLength > maxFrameLength) {
    // Discard read frame.
    buffer.skipBytes(minFrameLength + minDelimLength);
    fail(ctx, minFrameLength);
    return null;
}

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

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

private void fail(ChannelHandlerContext ctx, long frameLength) {
    if (frameLength > 0) {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength + 
                ": " + frameLength + " - discarded");
        )
    } else {
        ctx.fireExceptionCaught(
            new TooLongFrameException( 
                "frame length exceeds " + maxFrameLength + 
                " - discarding");
        )
    }
}
/**
 * Returns the number of bytes between the readerIndex of the haystack and
 * the first needle found in the haystack. -1 is returned if no needle is
 * found in the haystack.
 */

private static int indexOf(ByteBuf haystack, ByteBuf needle) {
    for (int i = haystack.readerIndex(); i < haystack.writerIndex(); i++) {
        int haystackIndex = i;
        int needleIndex;
        for (needleIndex = 0; needleIndex < needle.capacity(); needleIndex++) {
            if (haystack.getByte(haystackIndex) != needle.getByte(needleIndex)) {
                break;
            } else {
                haystackIndex ++;
                if (haystackIndex == haystack.writerIndex() &&
                    needleIndex != needle.capacity() - 1) {
                    return -1;
                }
            }
        }
    }

    if (needleIndex == needle.capacity()) {
        // Found the needle from the haystack!
        return i - haystack.readerIndex();
    }
    return -1;
}

private static void validateDelimiter(ByteBuf delimiter) {
    if (delimiter == null) {
        throw new NullPointerException("delimiter");
    }
    if (!delimiter.isReadable()) {
        throw new IllegalArgumentException("empty delimiter");
    }
}

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

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

  public static final SslHandshakeCompletionEvent SUCCESS = new SslHandshakeCompletionEvent();

  private final Throwable cause;

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

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

  /**
   * Return { @code true} if the handshake was successful
   */

public boolean isSuccess() {
    return cause == null;
}

/**
 * Return the Throwable if isSuccess() returns false and so the handshake failed.
 */
public Throwable cause() {
    return cause;
}
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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
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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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:

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

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

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  http://code.google.com/p/libdnet/
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  http://www.pcre.org/
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  http://www.lua.org/
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  o Various X.org libraries. These were built using MacPorts.
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 o freetype@nongnu.org

 Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

 o freetype-devel@nongnu.org

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--- end of FTL.TXT ---

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Ajay Joshi <jaj@google.com>
Balz Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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Mikls Fazekas <mfazekas@szemafor.com>
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Patrick Hanna <phanna@google.com>
Patrick Riley <spfr@google.com>
Peter Kaminski <piotrk@gmail.com>
Preston Jackson <preston.a.jackson@gmail.com>
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@gmail.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <spfr@google.com>
Peter Kaminski <piotrk@gmail.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <seefacm@gmail.com>
Sigurur sgeirsson <siggia@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vlad1@google.com>
Zhanyong Wan <wan@google.com>

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***********************************************************************

The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.
1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpswep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ucb.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
39. [42]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53] Michael Shields <shields@tembel.org> USNO clock driver
50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56] Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
54. [58] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
55. [59] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlssoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
15. mailto:casey@esc.co.za
16. mailto:%20Sven_Dietrich@trimble.COM
17. mailto:%20dundas@salt.jpl.nasa.gov
18. mailto:%20duwe@immd4.informatik.uni-erlangen.de
19. mailto:%20dennis@mrbill.canet.ca
20. mailto:%20jhay@icomtek.csir.co.za
21. mailto:%20davehart@davehart.com
22. mailto:%20neoclock4x@linum.com
23. mailto:%20glenn@herald.usask.ca
24. mailto:%20iglesias@uci.edu
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<signature of Ty Coon>, 1 April 1989
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/* .*-. Mode: Text .*-. */

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  date = "1970-2011";
  owner = "David L. Mills and/or others";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = note;
  text = "see html/copyright.html";
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Open Source Used In Enterprise Network Function Virtualization Infrastructure Service 3.11.1

6509
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- Takao Abe (takao_abe@xurb.jp) - Clock driver for JJY receivers
- Mark Andrews (mark_andrews@isc.org) - Leitch atomic clock controller
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- Viraj Bais (vbais@mailman1.intel.com) - Vielnet Bais
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- Torsten Duwe (duwe@immd4.informatik.uni-erlangen.de) - Linux port
- Dennis Ferguson (dennis@mrbill.canet.ca)
foundation code for NTP Version 2 as specified in RFC-1119

- IPv6 support and testing: John Hay <jhay@icomtek.csir.co.za>
- General maintenance, Windows port interpolation rewrite: Dave Hart <davehart@davehart.com>
- NeoClock4X clock driver: Claas Hilbrecht <neoclock4x@linum.com>
- GOES clock driver: Mike Iglesias <iglesias@uci.edu>
- DEC Alpha port: Jim Jagielski <jim@jagubox.gsfc.nasa.gov>
- IPv6 support and testing: Dave Hart <davehart@davehart.com>
- A/UX port: Hans Lambermont <H.Lambermont@chello.nl>
- SunOS 5.1 port: Louis A. Mamakos <louie@ni.umd.edu>
- MD5-based authentication: David L. Mills <mills@ni.umd.edu>
- Adaptation of foundation code for Version 3 as specified in RFC-1305: Danny Mayer <mayer@ntp.org>
- Network I/O, Windows Port, Code Maintenance: Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de>
- VMS port: Jeffrey Mogul <mogul@pa.dec.com>
- SCO OpenServer port: Derek Mulcahy <derek@toybox.demon.co.uk>
- SCO OpenServer port: Damon Hart-Davis <d@hd.org>
ARCRON MSF clock driver

<ol class="inline">
<li class="inline"><a href="mailto:%20neal@ntp.org">Rob Neal <neal@ntp.org></a> Bancomm refclock and config/parse code maintenance</li>
<li class="inline"><a href="mailto:%20Rainer.Pruy@informatik.uni-erlangen.de">Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de></a> monitoring/trap scripts, statistics file handling</li>
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<li class="inline"><a href="mailto:%20dirce@zk3.dec.com">Dirce Richards <dirce@zk3.dec.com></a> Digital UNIX V4.0 port</li>
</ol>

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jpg "Clone me," says Dolly sheepishly.

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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
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5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snntp
11. [12] Jean-François Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwc.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpsweep
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
30. [33] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
audio clock drivers: CHU, WWV/H, IRIG

37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
39. [42]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@nl.csiro.au
15. mailto:casey@csc.co.za
16. mailto:%20Sven_Dietrich@trimble.COM
17. mailto:%20duwe@inmd4.informatik.uni-erlangen.de
18. mailto:%20dennis@mrbill.canet.ca
19. mailto:%20Hay@icomtek.csir.co.za
20. mailto:%20davehart@davehart.com
21. mailto:%20neoclock4x@linum.com
22. mailto:%20glen@herald.usask.ca
23. mailto:%20iglesias@uci.edu
24. mailto:%20Sven_Dietrich@trimble.COM
25. mailto:%20jagubox.gsfc.nasa.gov
26. mailto:%20jbj@chatham.usdesign.com
27. mailto:Hans.Lambermont@nl.origin-it.com
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31. mailto:%20kardel(at)ntp(dot)org
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33. mailto:%20dkatz@cisco.com
34. mailto:%20lindholm@uos.ubc.ca
35. mailto:%20louie@ni.umd.edu
36. mailto:%20horinn@diku.dk
37. mailto:%20mayer@ntp.org
38. mailto:%20mills@udel.edu
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41. mailto:%20tmoore@fievel.daytonoh.ncr.com
42. mailto:%20kamal@whence.com
43. mailto:%20derek@toybox.demon.co.uk
44. mailto:%20hd@hd.org
45. mailto:%20neal@ntp.org
46. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de
47. mailto:%20dirce@zk3.dec.com
48. mailto:%20wsanchez@apple.com
49. mailto:%20mrapple@quack.kfu.com
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51. mailto:%20schnitz@unipress.com
52. mailto:%20shields@tembel.org
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54. mailto:%20harlan@pfcs.com
55. mailto:%20ken@sdd.hp.com
56. mailto:%20ajit@ee.udel.edu
57. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp
58. mailto:%20vixie@vix.com
59. mailto:%20Ulrich.Windl@rz.uni-regensburg.de
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11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
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    monitoring/trap scripts, statistics file handling
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References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vbais@mailman1.lmco.com
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
15. mailto:casey@csc.co.za
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1.1099 object-path 0.9.2

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1.1100 object.omit 2.0.0

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1.1136 osinfo-db-tools 1.1.0 :1.el7

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1.1139 pam 1.1.8 :18.el7

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concluded that weaker conditions might promote sharing better.

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1.1153 patch 2.6 :6.el6

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1.1159 path-type 1.1.0

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1.1160 pause-stream 0.0.11

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1.1162 pciutils 3.5.1 :2.el7

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

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The End
When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---

hv.c | 6 ++++++
sv.c | 7 ++++-
t/op/svleak.t | 22 +++++++++++++++++++++--
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
const I32 riter = HvRITER_get(ohv);
HE * const eiter = HvEITER_get(ohv);
+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 {

```perl
+    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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6850
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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-
built@perl.org>.
"
built_requiers:
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

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use strict;
use lib './lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#

{ my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'perl',
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
"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
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1.1166 perl-Algorithm-Diff 1.1902 :17.el7
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

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1.1176 perl-Compress-Raw-Bzip2 2.061 :3.el7

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

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abstract: 'Build and install Perl modules'

author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-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

---

1.1180 perl-CPAN-Meta-Requirements 2.122 :7.el7

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1.1189 perl-Digest-SHA 5.85 :4.el7

1.1190 perl-Digest-SHA1 2.13 :9.el7

1.1191 perl-Email-Date-Format 1.002 :15.el7
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1.1196 perl-ExtUtils-Manifest 1.61 :244.el7

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<signature of Ty Coon>, 1 April 1989
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1.1213 perl-IO-Pipely 0.005 :4.el7.centos

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1.1215 perl-IO-Socket-SSL 1.94 :6.el7

1.1216 perl-IPC-Cmd 0.80 :4.el7

1.1217 perl-JSON-PP 2.27202 :2.el7

1.1218 perl-libwww-perl 6.05 :2.el7
1.1218.1 Available under license:
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1.1219 perl-List-MoreUtils 0.33 :9.el7
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1.1221 perl-Log-Dispatch 2.41 :1.el7.1
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The End
The "MIME-Lite" Perl5 toolkit.

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1.1229 perl-MIME-Types 1.38 :2.el7
use strict;
use lib '/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    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
FULLTEXT

1.1231 perl-Module-Implementation 0.06 :6.el7
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1.1233 perl-Module-Load-Conditional 0.54 :3.el7

1.1234 perl-Module-Metadata 1.000018 :2.el7

1.1235 perl-Module-Runtime 0.013 :4.el7

1.1236 perl-Module-Signature 0.73 :2.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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If the program is interactive, make it output a short notice like this 
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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.

The hypothetical commands 'show w' and 'show c' should show the 
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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!

1.1237 perl-Net-Daemon 0.48 :5.el7
1.1237.1 Available under license:
From RPM File Metadata:GPL+ or Artistic
The "Artistic License"

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The End
This is the debian package for the Net-LibIDN module.
It was created by Thomas Jacob <jacob@internet2.de> using dh-make-perl.
The upstream author is:


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1.1240 perl-Net-SMTP-SSL 1.01 :13.el7

1.1241 perl-Net-SSLeay 1.55 :6.el7

1.1241.1 Notifications :

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit
(http://www.openssl.org/)
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.1241.2 Available under license :

README - Net::SSLeay Perl module for using OpenSSL
$Id: README 370 2013-03-22 00:28:13Z mikem-guest $

By popular demand...

-----------

perl -MNet::SSLeay -e '($p)=Net::SSLeay::get_https("www.openssl.org", 443, "/"); print $p'

Prerequisites

----------

perl-5.6.1

though anything starting from perl5.003 probably works.
OpenSSL-0.9.6j or OpenSSL-0.9.7b

(try http://www.openssl.org/) -

This release has been tested with 0.9.6d and
in historical light it seems likely that future versions
will work as well (if major version number changes all bets are off, though)

Note: SSLeay is no longer supported. If you want to use Net::SSLeay with SSLeay or early versions of OpenSSL, use version 1.03. The support for SSLeay was dropped due to nobody maintaining it (all active work goes on with OpenSSL) and due to incompatible API changes in OpenSSL-0.9.2b. OpenSSL-0.9.1c support has also been dropped, version 1.03 was the last one to support that.

You should use the same C compiler and options to compile OpenSSL, perl, and Net::SSLeay. This is the only supported configuration. If you insist on using different compilers (perhaps because you obtained either OpenSSL or perl as binaries from a vendor and they used a compiler that you do not have) then all requests for support will be ignored. If the only way for you to use the same compiler for all three components is to recompile your openssl or perl, then that is exactly what I expect you to do before asking for support.

Installing
----------

Unix:
# build OpenSSL as per instructions in that package

gunzip <Net-SSLeay.pm-1.35.tar.gz | tar xvf -
cd Net-SSLeay.pm-1.35
perl Makefile.PL    # builds and tests it
make test          # Run the test suite
make install       # You probably have to su to root to do this

HPUX:
In principle the Unix build should work (Makefile.PL contains special code to detect aCC), but historically there have been some problems. Marko Asplund (aspa@kronodoc._fi) reports that he has successfully compiled on HP-UX. He used following incantations

Configuring OpenSSL:

./Configure no-asm --prefix=/openssl/path hpux-parisc2-cc

Configuring Net::SSLeay:

OPENSSL_PREFIX=/openssl/path perl Makefile.PL CCFLAGS="-D_HPUX_SOURCE`-Aa -I/usr/local/include +e`"

The magic bit seemed to be the `+e` flag. Since version 1.14
Makefile.PL tries to figure this out.

He was using: gcc v2.95.2, OpenSSL v0.9.6c, Net::SSLeay-1.13

Windows:
Supported on 32 and 64 bit platforms
See README.Win32 for details

You should also be able to use CPAN.pm to install this module if you like.

Linking with RSAref is no longer supported (the patent issue is moot due to patent expiring). If you want to try it, you are on your own, but here's how it used to work...

For linking against RSAref the OPENSSL_RSAREF environment variable like this:

OPENSSL_RSAREF=1 ./Makefile.PL -t # builds and tests it, link against RSAref

You must previously have built OpenSSL with RSAref support (which implies first building rsaref itself), I use the RSAglue method. File librsaref.a must be found in one of the locations searched by linker (-L switches). Usually this means that you have to rename rsaref.a to librsaref.a and copy it to suitable directory, e.g. /usr/local/ssl/lib.

N.B. AFAIK the patent that made using RSAref necessary has expired, so this should be nonissue by now.

Problems (read this before sending mail)
----------------------------------------

Please, do not send bug report before you have

- compiled your OpenSSL yourself - don't copy binaries, please
- compiled your perl yourself and with substantially same CFLAGS and same C compiler (say `which cc' or `which gcc') as your OpenSSL.
This is especially applicable to link errors and shared library loading problems. Please do not even dream of copying a perl binary or installing perl binary from a package.
Perl's idea of calling conventions has to match OpenSSL's and unfortunately both are quite advanced pieces of code (guru duel: Larry Wall vs. Eric Young :-) with dynamic loading and who knows what
- compiled my module from source against correct perl (say `which perl' and check your path). Generally my module's build process will discover correct compiler and flags from `perl -V'
- tried gcc, if your vendor cc fails
If you post a question or make a bug report, please remember to mention

- Your platform and OS version (i386 Linux, Sparc Solaris, etc) (uname -a)
- On Linux, please report glibc version as well (ls -l /lib/libc*)
- Net::SSLeay version (see tar ball)
- OpenSSL version (`/usr/local/ssl/bin/openssl version`)
- ANSI C compiler brand and version (e.g. gcc -v)

If build fails,
- three compiler warnings are known to be emitted (due to lack of const in some places), one of them indicates a fatal bug in callback handling, but as I have not yet sorted it out, you'll simply have to ignore it
- if you installed OpenSSL from some distribution, try getting a fresh copy from www.openssl.org and recompiling and installing it yourself
- make sure you are not being confused by the fact that OpenSSL-0.9.3 changed the location of include files to /usr/local/ssl/include/openssl/*
  Consider deleting all old bogus headers
- if using newer than supported OpenSSL, please downgrade to supported version to see if it makes difference
- you must compile the module, perl, and openssl with the same C compiler and the same options. Use perl -V to check what options were used and recompile openssl and Net::SSLeay accordingly
- never report bugs related to binary installs. First compile _yourself_ perl, openssl and my module, always using the same compiler and compiler flags. Many distros are known to "know better" and thus cause problems for their users. I'm not very sympathetic to having to answer end user questions thus created.
- send full output of `make clean; perl Makefile.PL -t`

If make test fails, please
- one warning is known to be emitted between tests 4 and 5 (callback)
- edit test.pl and set $trace=2
- send full output of `make clean; perl Makefile.PL -t`
- send contents of sslecho.log

If you have problems with a site, please
- what site, what server software (including version and platform)
- does it reproduce with s_client, try with something like

  echo 'GET /' | /usr/local/ssl/bin/openssl s_client -connect www.bacus.pt:443

  - does it reproduce with popular web browsers
  - play with Net::SSLeay::ssl_version (see top of SSLeay.pm)
  - does the site run exotic configuration, e.g. insisting on specific protocol version, limiting available ciphers, using nonstandard ciphers, weird authentication arrangements, etc.)
  - contact the owner of the server to see what the problem looks like in his end. He should be able to tell you the exact versions used
and the error messages he is seeing in his log
- if you ask me to check a site out, you are granting me permission
to access that site and will pay all legal expenses to defend me
in court as well as any remedies that may be granted to the site
in case the site decides to sue me. You warrant that you are
authorized to give me permission to access the site.
- if you ask me to check a site, please send me a working URL and
include any authentication credentials if needed. If your site
is so confidential that you can not give me an URL, then do
not ask me to debug your problems.

HP-UX is known to give some problems, please mail me or the mailing
list so we can get these problems straightened. Hint: it has to do
with dynamic loading. One user reports that adding `-lgcc' to EXTRALIBS
and LD_LOAD_LIBS in Makefile fixes the problem. I have not received any
corroboration whether this fix really works, but its worth a try. Another
bag of problems is people installing against binary distributed
perl and compiling the package with different cc or different options.
Generally this will never work. Please compile _yourself_ your perl,
openssl, and the module, always with the same compiler and compiler flags.

Solaris 8 does not come standard with /dev/random or /dev/urandom, and the
'make test' assumes that some source of randomness is available. 'make test'
will fail on Solaris 8 if /dev/urandom is not available. The error message
seen with trace enabled will be "SSL_GET_NEW_SESSION:ssl session id callback
failed". In order to fix this, you must install Sun patch 112438-03 from
http://sunsolve.sun.com

#: unzip 112438-03.zip
#: patchadd ./112438-03
You will probably need to reboot your system:
#: reboot

I have a report (schinder@@pobox._com) of make test segfaulting on
Linux-PPC. This still needs to be investigated. No recent information
has been received.

It seems perl5.004 (at least some versions) has bad xsub compiler which
can make builds sometimes fail. Try upgrading to perl-5.6.1 first.

"Random number generator not seeded!!!!" This warning indicates that
randomize() was not able to read /dev/random or /dev/urandom, possibly
because your system does not have them or they are differently
named. You can still use SSL, but the encryption will not be as
strong.

Did you read the POD documentation (if you don't know what that
is, just say `perldoc Net::SSLeay' or `more SSLeay.pm')?
Are you sure you didn't confuse `Net::SSLeay' with `SSLey' that comes with OpenSSL?

My development environments used to be

i686, Linux-2.4.3, gcc-2.92.2, glibc-2.2, perl-5.6.0, openssl-0.9.6a
i686, Linux-2.4.3, gcc-2.92.2, glibc-2.2, perl5.005_02, openssl-0.9.6a
i686, Linux-2.0.35, gcc-2.7.2.3, glibc-2.0.6, perl5.005_02, openssl-0.9.5a
i586, Linux-2.4.3, gcc-2.92.2.1, glibc-2.2.2, perl-5.6.0, openssl-0.9.6a
i586, Linux-2.4.3, gcc-2.92.2.1, glibc-2.2.2, perl5.005_03, openssl-0.9.6
i586, Linux-2.4.3, gcc-2.92.2.1, glibc-2.2.2, perl5.005_03, openssl-0.9.6a
Sun-U1, SunOS-5.6, gcc-2.92.2, libc2 perl-5.6.1, openssl-0.9.6c

Unfortunately I do not have access to other systems so you are somewhat on your own. Everything compiles without a warning (except those mentioned above) on my systems.

Check that perl is finding your OpenSSL.

If `make test' bombs, add following line to the test script that fails:

$Net::SSLeay::trace = 2;

and see what happens. You may also have to edit test.pl to make sure the debugging output gets printed.

If `make test' prints lots of `connect: Connection refused...' errors, then sslecho.pl test server has died. It is supposed to be launched in the beginning of test.pl, but can fail if, e.g. port 1212 is taken or in TIMEWAIT state. Look also in ssleacho.log file for diagnostics.

If you are really low on memory and the 1 MB tests fail, edit value of $mb variable in test.pl.

If you get core dump, build your perl for debugging (add -g to ccflags, see INSTALL in perl distribution), build your SSLeay for debugging as well, add -g flag to Makefile.PL:

make clean
perl Makefile.PL -g
make static
make test_static
gdb perl core # post mortem
   > bt # show stack trace
gdb perl # run live with debugging
   # set break point in SSLeay.xs or in suspect function of OpenSSL
   > br XS_Net__SSLeay_connect
> run yoursctipt.pl arg arg

For gdb'ing make sure gdb finds all the relevant source code. This may mean that you must run perl and OpenSSL from the directories where the respective makefiles build them.

You can also enable PR and PRN macros in SSLeay.xs and sprinkle even some more around the code to figure out what's happening.

Some exotic configurations of perl may cause unstability: make sure OpenSSL uses the same malloc as perl. Recompile perl without threads. Try not using the PerlIO abstraction.

If you need to tweak build for some platform, please let me know so I can fix it. Patches and gdb session dumps are also welcome.

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Recommended reading
---------------------

===> HTTP protocol specification. It applies 100% to HTTPS too and doing password authentication is explained there. <===

If you are newbie interested in grabbing web pages from https servers, please read HTTP documentation from http://www.w3c.org/ before asking trivial questions. That document also covers the basic-auth FAQ (URLs like http://user:pass@host). Do not ask questions about authentication before
consulting the HTTP specification. HTTPS is just HTTP in SSL transport.

If you are doing advanced stuff, and don't find documentation you need, please try to extrapolate from OpenSSL documentation (which unfortunately is quite sparse) and the source code.

If you run into build problems, especially regarding shared libraries, check your perl documentation, especially the perlxtut(1) man page, which gives excellent tutorial of the build process of XSUBs.

perlxtut(1)
perlxs(1)
perlguts(1)
perlcall(1)

Say `perldoc Net::SSLeay' _NOW_!

To download OpenSSL, try URL http://www.openssl.org/

Of related interest may be `http://www.symlabs.com/Net_SSLeay/smime.html'

Bug reports, patch submission, feature requests, subversion access to the latest source code etc can be obtained at
http://alioth.debian.org/projects/net-ssleay

The developer mailing list (for people interested in contributing to the source code) can be found at
http://lists.alioth.debian.org/mailman/listinfo/net-ssleay-devel

1.1242 perl-Net-TacacsPlus 1.10 :1.el7.centos

1.1243 perl-Package-DeprecationManager

0.13 :7.el7

1.1243.1 Available under license:

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1.1244 perl-Package-Stash 0.34 :2.el7

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1.1245 perl-Package-Stash-XS 0.26 :3.el7

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1.1270 perl-Text-ParseWords 3.29 :4.el7

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In-Reply-To: <rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>
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1.1276.1 Available under license :
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1.1283 perl-XML-Parser 2.41 :10.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
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# vim600: encoding=UTF-8

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

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

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

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

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

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

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

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

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

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

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1.1307 portscanner 1.0.0

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1.1308 postfix 2.10.1 :6.el7

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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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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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1.1318 procps-ng 3.3.10 :16.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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1.1320 protobuf-c 1.0.2 :3.el7

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1.1321 proxy-addr 1.0.10

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**1.1325 Pull API for parsing MIME messages - MIMEpull 1.6**

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1.1326 pulseaudio 0.9.21 :14.el6_3

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-- Lennart Poettering, April 20th, 2006.

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

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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a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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That's all there is to it!

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However, the server side has optional GPL dependencies. These include the libsamplerate and gdbm (core libraries), LIRC (lirc module) and FFTW (equalizer module), although others may also be included in the future. If PulseAudio is compiled with these optional components, this effectively downgrades the license of the server part to GPL (see the file GPL for details), exercising section 3 of the LGPL. In such circumstances, you should treat the client library (libpulse) of PulseAudio as being LGPL licensed and the server part (libpulsecore) as being GPL licensed. Since the PulseAudio daemon, tests, various utilities/Helpers and the modules link to libpulsecore and/or the afore mentioned optional GPL dependencies they are of course also GPL licensed also in this scenario.

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Andre Adrian's echo cancellation implementation is licensed under a less restrictive license - see src/modules/echo-cancel/adrian-license.txt for details.

Some other files pulled into PA source (i.e. reference implementations that are considered too small and stable to be considered as an external library) use the more permissive MIT license. This include the device reservation DBus protocol and realtime kit implementations.

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While we attempt to provide a summary here, it is the ultimate responsibility of the packager to ensure the components they use in their build of PulseAudio meets their license requirements.

1.1328 pygobject2 2.28.6 :11.el7
1.1328.1 Available under license :

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Version 2.1, February 1999

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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.

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are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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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.

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

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

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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These requirements apply to the modified work as a whole. If
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themselves, then this License, and its terms, do not apply to those
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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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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1.1329 pygobject3 3.22.0 :1.el7

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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1.1334 pyparsing 1.5.6 :9.el7

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**1.1336 python 2.7.5 :58.el7**

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.. highlightlang:: none

.. _history-and-license:

*******************
History and License
*******************

History of the software

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

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

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

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

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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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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 (ansi2krr 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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Modified by Jack Jansen, CWI, July 1995:
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- Arguments more compliant with Python standard

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

Open Source Used In Enterprise Network Function Virtualization Infrastructure Service 3.11.1
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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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A. HISTORY OF THE SOFTWARE

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

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1.1338 python-argparse 1.2.1-2.1.el6

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The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History
------

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

A. HISTORY OF THE SOFTWARE

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

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

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

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

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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>

This library is free software; you can redistribute it and/or
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License as published by the Free Software Foundation; either
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You should have received a copy of the GNU Lesser General Public
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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!

1.1344 python-cheetah 2.4.1 :1.el6
1.1344.1 Available under license :

Copyright 2001-2005, The Cheetah Development Team: Tavis Rudd, Mike Orr,
Chuck Esterbrook, Ian Bicking.

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CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
1.1345 python-configobj 4.6.0 :3.el6

1.1345.1 Available under license:

# setup.py
# Install script for ConfigObj
# Copyright (C) 2005-2009 Michael Foord, Mark Andrews, Nicola Larosa
# E-mail: fuzzyman AT voidspace DOT org DOT uk
# mark AT la-la DOT com
# nico AT tekNico DOT net

# This software is licensed under the terms of the BSD license.
# http://www.voidspace.org.uk/python/license.shtml
Copyright (c) 2003-2010, Michael Foord
All rights reserved.
E-mail : fuzzyman AT voidspace DOT org DOT uk

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  with the distribution.

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OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in
the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.
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Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source
license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===
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===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne
--
Dwayne C. Litzenberger <dlitz@dlitz.net>

    Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 7604 invoked by uid 1003;
    Mon 20 Apr 2009 17:25:36 -0600 (CST)
Delivered-To: m-litz-dlitz@drlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available)
for <d/on@drlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

DKIM-Signature: v=1; a=rsa-sh256; c=relaxed/relaxed; d=yahoo.com; s=s1024;
b=OvxqbYnCg7R6tUN3YmgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpQxyKFZ8BheniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZlhkLQdkQk0qLz5f4g8dT6bOME3s
EY1j10hIX0K0u2UD0yoYTINBCmsdMQRo7ph9bmt+p/EJhRpe+FiV6aaoLV0FONWiHG2ghPT1dulWXfVTqgB
2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
d=mail.yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6ShFF55VqQLg+9tcnlxKuo4RsLVxXF6fdQpQrMyRChxFeoebhuTE35rgQlom0JLwM0+mZwB6r6GkDJ7
63caOAlo8Ect/qIADW5izXfMvQaDchTbTqmpSBmQaTqS9iZ+InrG+3UlwtdUSGxF7hEmf9P/HBzxf9Wp4b3j

eo=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:
FrK8aWMVM1mFjltpMGbUbCLjUBQC.i.JkIAKUHSFsn79PbetewAewXJ2uhZGCOJGCX60VnG3u.CgqzAfFy
4vZSnfT8wnCkZzN9Z_g6k.Xuc3ipo_6e.92TXI4p8MXdGAf1tBFNf5XPwCQ7aREs7jGoWvVJYVyp50cisUFS
Hf7272pa8p1Yo_xSzf30AqGRhsf5CrSFC8SxHPCurwLYYhasbHmkWfiteSS.x6qEcBax03oz4FeDb5mpJ54g11X
ong8h_TmxXg84Bni9g_3J4f5WSxM6g6.tohtLyxfUuxozj4036wWpTKPwEzUQaN835v_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)
> 
> ==----------------------------------------------------------------------
> Distribute and use freely; there are
> no restrictions on further
> dissemination and usage except those
> imposed by the laws of your
> country of residence. This
> software is provided "as is" without
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> 
> ===================================================================
> 
> Incorporating the code into commercial
> products is permitted; you do
> not have to make source available or
> contribute your changes back
> (though that would be nice).
> 
> --amk
> 
> (www.amk.ca)
> 
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> M. Kuchling, Robey
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> I understand that you have made contributions to
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> 
> 
> The contents of this file are
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domain is not available, everyone
is granted a worldwide, perpetual,
royalty-free, non-exclusive license
to exercise all rights associated with
the contents of this file for
any purpose whatsoever. No
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :) 

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
> 
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
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> Mark.
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>> not at all.
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```

Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Hi Jeethu,

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

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

Regards,
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--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
  for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
  for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
  by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
  for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
  for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
  d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
  :date:message-id:subject:from:to:content-type;
  bh=9YWy9U32WCU/k8sRsQkHwaOZyJQBU4Yvt5ml20U6mI/g=;
  b=0Mji22IxYjIKe2zNJW3tRiUi9LqFXmey5Wp0pLtuNF+X3duyh0pTuBAKw7MwVY
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
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> working on a new release at http://www.pycrypto.org/.
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(www.amk.ca)

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Regards,
-Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

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Jeethu Rao

PB: Apologies for the delay in my response.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com.

Jeethu Rao

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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).
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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,

-Dwayne
On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
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> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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===================================================================
Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
    by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
    Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
    by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ceG+JdZwNvPJRTsa6rhY6+MHLDHI6agk
evkJnSJQAcvVHznVIVeR5IxgDUMakZjU4SOV7MqkhsKA9Ie7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74qrrb1PCCbCRmpaYN0+DZohwHkeFBjbwDRA3wItOrH7
SK4w9VBlfY=3D
=3DQduY
-----END PGP SIGNATURE-----

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, and he has approved the following dedication for his contributions.

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

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-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ceG+JdZwNvPJRTsa6rhY6+MHLDHI6agk
evkJnSJQAcvVHznVIVeR5IxgDUMakZjU4SOV7MqkhsKA9Ie7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74qrrb1PCCbCRmpaYN0+DZohwHkeFBjbwDRA3wItOrH7
SK4w9VBlfY=3D
=3DQduY
-----END PGP SIGNATURE-----
May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)
iEYEARECAAYFakmZ01gACgkQQQDkKvyJ6cOLvQClQmYYuVODvIlLyLg0hgCI9LAbQSH8AoLJgag1lli7/ZYDc+/Cd8VO0xLbr
=Mc6g
-----END PGP SIGNATURE-----
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it’s GPL-compatible, etc. Right now, I’m not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I’d like to take steps to move toward a clearer licensing regime. I’m asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable
contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFak5rawing521ACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
> People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

===================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

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

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
    for <dwn@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
    for <dwn@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
    Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in '
    mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
    from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
    Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
        by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
    for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
    Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
        for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
    DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=gmail.com; s=gamma;
        h=mime-version:in-reply-to:references:from:date:message-id:subject:to:
        content-type:content-transfer-encoding;
        bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvgApWcc=;
        b=gyTqkRhKIHadFKIIZCBWslbMNVDq1PWlJbyC0EvxPskaoHr3HAR96MWMQNBzBu40Ac
        Vn55qIlqTdom4em9zILUEEO6MexZo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVsWitaYwNAYMJ
        Y9++76PGGqYdALsfsnmwv7Q3/bEmjVTt0tQE=
    DomainKey-Signature: a=rsa-sha1; c=nofws;
        d=gmail.com; s=gamma;
        h=mime-version:in-reply-to:references:from:date:message-id:subject:
        content-type:content-transfer-encoding;
        b=jze7KSMkUGiIVCXXkaXMi5NATdGdMQOtVZZfRNyGSy68xOd2sxefyjyg3EfT6Nv6
        Q3opUMsT96Q6zjZNDD55w446kTh2uBtNz4d3NweIEWJnG3xclIRQu/mXPfp8AzPI3CefL
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> Hi Paul,
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
>
> That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> > domain all your contributions to PyCrypto, with the following notice?
> >
> > =C2=A0The contents of this file are dedicated to the public domain. =C2=
> =A0To the
> > > extent that dedication to the public domain is not available, every=
> one
> > > is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> > > to exercise all rights associated with the contents of this file fo=
> r
> > > any purpose whatsoever. =C2=A0No rights are reserved.
> >
> > Yes, that's fine. Good luck with the new release!
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>   >> Hi Paul,
>   >>
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>   >
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>   >>
>   >> ______________________________________________________
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===================================================================

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(though that would be nice).

--amk (www.amk.ca)

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

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>;  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

```
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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================
```

Thanks,

Joris
Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
>>
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> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
>==================================================================
>
> Incorporating the code into commercial products is permitted; you do
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> (though that would be nice).
>
> --amk (www.amk.ca)
>
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>
>==================================================================
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> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25 AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
> 
> You have my full permission to dedicate all my contributions to PyCrypto to
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Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.
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>> behalf, dedicate to the public domain all your contributions to PyCrypto,
>> with the following notice?
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>>
>> Regards,
>> - Dwayne
>>
>> Dwayne C. Litzenberger <dlitz@dlitz.net>

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

A. HISTORY OF THE SOFTWARE

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

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

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

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

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
---BEGIN PGP SIGNED MESSAGE-----

########################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#    dlitz@dlitz.net
# requested that this message be sent to:-
#    crypt@bis.doc.gov
#    enc@nsa.gov
#    web_site@bis.doc.gov
#    pycrypto@lists.dlitz.net
#    PYTHON-CRYPTO@NIC.SURFNET.NL
#    dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
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# has NOT been authenticated by this service
#
# For information about the Stamper service see
#    http://www.itconsult.co.uk/stamper.htm
#
########################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/
Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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Charset: noconv
Comment: Stamper Reference Id: 0520978

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1.1348 python-cryptography 1.7.2 :2.el7

1.1348.1 Available under license :

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1.1349 python-dateutil 1.4.1 :6.el6

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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<th>Owner</th>
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.1352 python-dmidecode 3.12.2 :1.el7
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1.1353 python-ecdsa 0.13 :4.el7
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1.1354 python-enum34 1.0.4 :1.el7

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1.1355 python-ethtool 0.6 :3.el6

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1.1357 python-gudev 147.1 :4.el6_0.1

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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1.1360 python-iniparse 0.3.1 :2.1.el6

1.1360.1 Available under license :

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

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

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

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

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1.1363 python-IPy 0.75 :6.el7

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1.1364 python-iwlib 0.1 :1.2.el6

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

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1.1365 python-jsonpatch 1.2 :2.el6.centos

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1.1366 python-jsonpointer 1.0

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1.1367 python-kitchen 1.1.1 :5.el7
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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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
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) 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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That's all there is to it!
1.1376 python-ping NA
1.1376.1 Available under license:

```python
A pure python ping implementation using raw socket.

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

Derived from ping.c distributed in Linux’s netkit. That code is
copyright (c) 1989 by The Regents of the University of California.
That code is in turn derived from code written by Mike Muuss of the
US Army Ballistic Research Laboratory in December, 1983 and
placed in the public domain. They have my thanks.

Bugs are naturally mine. I’d be glad to hear about them. There are
certainly word - size dependencies here.

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Original Version from Matthew Dixon Cowles:

Rewrite by Jens Diemer:
- > http://www.python-forum.de/post-69122.html#69122

Revision history
~~~~~~~~~~~~~~~

March 11, 2010
changes by Samuel Stauffer:
- replaced time.clock with default_timer which is set to
time.clock on windows and time.time on other systems.

May 30, 2007
little rewrite by Jens Diemer:
- change socket asterisk import to a normal import
- replace time.time() with time.clock()
- delete "return None" (or change to "return" only)
- in checksum() rename "str" to "source_string"

November 22, 1997
Initial hack. Doesn't do much, but rather than try to guess
```
what features I (or others) will want in the future, I've only put in what I need now.

December 16, 1997
For some reason, the checksum bytes are in the wrong order when this is run under Solaris 2.X for SPARC but it works right under Linux i86. Since I don't know just what's wrong, I'll swap the bytes always and then do an htons().

December 4, 2000
Changed the struct.pack() calls to pack the checksum and ID as unsigned. My thanks to Jerome Poincheval for the fix.

Januari 27, 2015
Changed receive response to not accept ICMP request messages.
It was possible to receive the very request that was sent.

Last commit info:
~~~~~~~~~~~~~~~~~
$LastChangedDate: $
$Rev: $
$Author: $
====
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Version 2, June 1991

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1.1377 python-pip 1.4.1

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1.1378 python-ply 3.4 :1.el7

1.1379 python-prettytable 0.6.1 :1.el6

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1.1380 python-pyasn1 0.1.9 :7.el7

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* Andrew de los Reyes
* Benoit Pradelle
* Dov Feldstern
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* Greg Smith
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* Rory Yorke
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1.1384 python-pygments 1.1.1 :1.el6

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1.1388 python-requests 2.6.0 :1.el7_1
1.1388.1 Available under license:

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1.1389 python-rhsm 1.1.8.1.el6

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# Released to the public domain 16-Jan-2001, by Tim Peters (tim@python.org).
# Major enhancements and refactoring by:
#   Jim Fulton
#   Edward Loper

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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to attach them to the start of each source file to most effectively
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    Gnomovision version 69, Copyright (C) 19yy name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

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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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1.1396 python-urlgrabber 3.10 :8.el7
1.1396.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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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
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1.1397 python-urllib3 1.10.2 :3.el7
1.1397.1 Available under license :

# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>
## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <s Eugene mig@ibofohi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbz bryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn 1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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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
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from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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1.1400 PyYAML 3.10 :3.1.el6
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1.1401 q 1.4.1

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1.1402 qemu-kvm-ev 2.10.0 :21.el7_5.4.1

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From 47357547c1040e029aec3e1d9e850d6249bc2bbb Mon Sep 17 00:00:00 2001
From: Kevin Wolf <kwolf@redhat.com>
Date: Mon, 15 Jan 2018 11:23:36 +0100
Subject: [PATCH 11/12] block: Don't request I/O permission with BDRV_O_NO_IO

RH-Author: Kevin Wolf <kwolf@redhat.com>
Message-id: <20180115112337.20885-3-kwolf@redhat.com>
Patchwork-id: 78575
O-Subject: [RHV-7.5 qemu-kvm-rhev PATCH 2/3] block: Don't request I/O permission with BDRV_O_NO_IO
Bugzilla: 1515604
RH-Acked-by: Stefan Hajnoczi <stefanha@redhat.com>
'qemu-img info' makes sense even when BLK_PERM_CONSISTENT_READ cannot be granted because of a block job in a running qemu process. It already sets BDRV_O_NO_IO to indicate that it doesn't access the guest visible data at all.

Check the BDRV_O_NO_IO flags in blk_new_open(), so that I/O related permissions are not unnecessarily requested and 'qemu-img info' can work even if BLK_PERM_CONSISTENT_READ cannot be granted.

Signed-off-by: Kevin Wolf <kwolf@redhat.com>
Reviewed-by: Fam Zheng <famz@redhat.com>
Reviewed-by: Alberto Garcia <berto@igalia.com>
(cherry picked from commit 1f4ad7d3b8f7162ec0471506d86f57a5d77b8f76)
Signed-off-by: Kevin Wolf <kwolf@redhat.com>
Signed-off-by: Miroslav Rezanina <mrezanin@redhat.com>

---
block/block-backend.c | 10 ++++++-
1 file changed, 6 insertions(+), 4 deletions(-)

diff --git a/block/block-backend.c b/block/block-backend.c
index 083e65f..dce8b96 100644
--- a/block/block-backend.c
+++ b/block/block-backend.c
@@ -299,7 +299,7 @@ BlockBackend *blk_new_open(const char *filename, const char *reference,
 {  
     BlockBackend *blk;
     BlockDriverState *bs;
-    uint64_t perm;
+    uint64_t perm = 0;

     /* blk_new_open() is mainly used in .bdrv_create implementations and the
      * tools where sharing isn't a concern because the BDS stays private, so we
@@ -309,9 +309,11 @@ BlockBackend *blk_new_open(const char *filename, const char *reference,
         * caller of blk_new_open() doesn't make use of the permissions, but they
         * shouldn't hurt either. We can still share everything here because the
         * guest devices will add their own blockers if they can't share. */
-    perm = BLK_PERM_CONSISTENT_READ;
-    if (flags & BDRV_O_RDWR) {
-        perm |= BLK_PERM_WRITE;
+    if ((flags & BDRV_O_NO_IO) == 0) {
+        perm |= BLK_PERM_CONSISTENT_READ;
+        if (flags & BDRV_O_RDWR) {
+            perm |= BLK_PERM_WRITE;
+        }
+    }
if (flags & BDRV_O_RESIZE) {
    perm |= BLK_PERM_RESIZE;
--

1.8.3.1
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

# ****************************************************************************#
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# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
# ****************************************************************************/

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I./include -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^ $(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a
distclean: clean
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
     }
     if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
         printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
 for (i=0; i< M.x86.enc_pos; i++) {
         sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,o+i));
 } - printk("%-20s",buf1);
+ printk("%-20s ",buf1);
 } 
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
 target += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+
case 0xc8:
+
DECODE_PRINTF("EAX\n");
+
M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+
break;
+
case 0xc9:
+
DECODE_PRINTF("ECX\n");
+
M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+
break;
+
case 0xca:
+
DECODE_PRINTF("EDX\n");
+
M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+
break;
+
case 0xcb:
+
DECODE_PRINTF("EBX\n");
+
M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+
break;
+
case 0xcc:

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```c
+    DECODE_PRINTF("ESP\n");
+    M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+    break;
+    case 0xcd:
+    DECODE_PRINTF("EBP\n");
+    M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+    break;
+    case 0xce:
+    DECODE_PRINTF("ESI\n");
+    M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+    break;
+    case 0xcf:
+    DECODE_PRINTF("EDI\n");
+    M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+    break;
+    }
+    TRACE_AND_STEP();
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+
+    /*  0xc5 */ x86emuOp2_illegal_op,
+    /*  0xc6 */ x86emuOp2_illegal_op,
+    /*  0xc7 */ x86emuOp2_illegal_op,
+    /*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+    /*  0xd0 */ x86emuOp2_illegal_op,
+    /*  0xd1 */ x86emuOp2_illegal_op,

Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
```

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--- ops.c 7 Sep 2007 10:01:21 -0000
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = target;
        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R(ECX) : M.x86.R_CX;
+        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R(ECX) = 0;
+        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
 - /* move them until CX is ZERO. */
 - count = M.x86.R_CX;
 + /* move them until (E)CX is ZERO. */
 + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
 M.x86.R_CX = 0;
 +if (M.x86.mode & SYSMODE_32BIT_REP)
 + M.x86.R_ECX = 0;
 + if (M.x86.mode & ((SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE) ^ M.x86.R_ECX)
 while (count--) {
 @ @ -2574.6 +2586.8 @@
 }
 M.x86.R_SI += inc;
 M.x86.R_DI += inc;
 + if (M.x86.intr & INTR_HALTED)
 + break;
 }
Decode_CLEAR_SEGVR();
END_OF_INSTR();
@ @ -2598.16 +2612.21 @@

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* REPE */
 - /* move them until CX is ZERO. */
 - while (M.x86.R_CX != 0) {
 + /* move them until (E)CX is ZERO. */
 + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 valu1 = fetch_data_byte(M.x86.R_SI);
 valu2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_byte(valu1, valu2);
 - M.x86.R_CX := 1;
 + if (M.x86.mode & SYSMODE_32BIT_REP)
 + M.x86.R_ECX := 1;
 + else
 + M.x86.R_CX := 1;
 M.x86.R_SI += inc;
 M.x86.R_DI += inc;
 if ( (M.x86.mode & SYSMODE_PREFIX_REPE) & (ACCESS_FLAG(F_ZF) == 0) ) break;
 if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) & (ACCESS_FLAG(F_ZF) ) break;
 + if (M.x86.intr & INTR_HALTED)
 + break;
 }
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            }
            if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
                /* REPE */
                - /* move them until CX is ZERO. */
                - while (M.x86.R_CX != 0) {
                + /* move them until (E)CX is ZERO. */
                + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                    val1 = fetch_data_long(M.x86.R_SI);
                    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_word((u16)val1, (u16)val2);
                }
            }
        }
    }

TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
            +    break;
            + if (M.x86.intr & INTR_HALTED)
            +    break;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        } else {
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
            TRACE_AND_STEP();
            if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
                /* REPE */
                - /* move them until CX is ZERO. */
                - while (M.x86.R_CX != 0) {
                + /* move them until (E)CX is ZERO. */
                + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
                    - M.x86.R_CX -= 1;
                    + if (M.x86.mode & SYSMODE_32BIT_REP)
                    +    M.x86.R_ECX -= 1;
                    + else
                    +    M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    + if (M.x86.intr & INTR_HALTED)
                    +    break;
            } else {
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
    +    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    }
}

M.x86.R_DI += inc;

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +     M.x86.R_ECX -= 1;
        + else
        +     M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        + if (M.x86.intr & INTR_HALTED)
        +     break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
}

store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
M.x86.R_DI += inc;

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +     M.x86.R_ECX -= 1;
        + else
        +     M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        + if (M.x86.intr & INTR_HALTED)
        +     break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
}

store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
M.x86.R_DI += inc;

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +     M.x86.R_ECX -= 1;
        + else
        +     M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        + if (M.x86.intr & INTR_HALTED)
        +     break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
}

store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
M.x86.R_DI += inc;

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +     M.x86.R_ECX -= 1;
        + else
        +     M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        + if (M.x86.intr & INTR_HALTED)
        +     break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    if (M.x86.intr & INTR_HALTED)
        break;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                if (M.x86.mode & SYSMODE_32BIT_REP)
                    M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
    else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            else
                M.x86.mode &= ~(SYSMODE_PREFIX_REPE);
        } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
            /* REPNE */
            /* move them until CX is ZERO. */
            while (M.x86.R_CX != 0) {
                /* move them until (E)CX is ZERO. */
            }
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) { 
  val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(M.x86.R_AL, val2);
-  M.x86.R_CX -= 1;
+  if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+  else
+    M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
+  if (M.x86.intr & INTR_HALTED)
+    break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else { 
@@ -2951,8 +3003,8 @@
  TRACE_AND_STEP();
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
+    /* REPE */
+    /* move them until (E)CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
      }
-      M.x86.R_CX -= 1;
+      if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+      else
+        M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF) == 0)
        break;
+      if (M.x86.intr & INTR_HALTED)
+        break;
    }
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) { 
+    /* REPNE */
+    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
      }
-      M.x86.R_CX -= 1;
+      if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+      else
+        M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF) == 0)
        break;
+      if (M.x86.intr & INTR_HALTED)
+        break;
    }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
}
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);
  } else {
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
  }
}
@@ -2977,10 +3034,15 @@
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
+            M.x86.R_DI += inc;
+            if (ACCESS_FLAG(F_ZF))
+                break;  /* zero flag set means equal */
+            if (M.x86.intr & INTR_HALTED)
+                break;
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
   imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETFn");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX = 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX = 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPEn\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REP;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c7 Sep 2007 10:01:21 -00001.1
+++ prim_ops.c16 Jan 2008 14:18:15 -00001.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#define __HAS_LONG_LONG__

s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

*res_lo = (u32)res;
*res_hi = (u32)(res >> 32);

void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
    - u64 res = (u32)M.x86.R_EAX * (u32)s;
    + u64 res = (u64)M.x86.R_EAX * s;
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    
}
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
#ifdef LINUXBIOS_VERSION
    #include "io.h"
#else
    #include <sys/io.h>
#endif
#ifdef IN_MODULE
    #include "xf86_ansic.h"
#endif

DB(if (DEBUG_IO_TRACE())
    printk("inb %#04x \n", addr);
    return inb(addr);
    +return 0;
}

DB(if (DEBUG_IO_TRACE())
    printk("inw %#04x \n", addr);
    return inw(addr);
    +return 0;
}

DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
    return inl(addr);
+return 0;
}

/******************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("outb %#02x -> %#04x \n", val, addr);
-outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("outw %#04x -> %#04x \n", val, addr);
-outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
 printk("outl %#08x -> %#04x \n", val, addr);
-outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
 -M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -00001.4
@@ -40,8 +40,6 @@
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H

--- include/x86emu/debug.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -00001.4
@@ -40,8 +40,6 @@
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H


/* checks to be enabled for "runtime" */
@ @ -78,6 +76,8 @@
#define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
@ @ -96,6 +96,8 @@
#define DEBUG_SYSINT() 0
#define DEBUG_TRACECALL() 0
#define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS() 0
#define DEBUG_MEM_TRACE() 0
#define DEBUG_IO_TRACE() 0
@ @ -169,14 +171,20 @@
x86emu_dump_regs();
 if (DEBUG_TRACECALL())
 printk("%04x:%04x: CALL %s %04x:%04x\n", u , v, s, w, x);
+# define RETURN_TRACE(n,u,v)
+ if (DEBUG_TRACECALLREGS())
+ x86emu_dump_regs();
 if (DEBUG_TRACECALL())
 -printk("%04x:%04x: %s\n",u,v,n);
 +printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+ if (DEBUG_TRACEJMPREGS())
+ x86emu_dump_regs();
+ if (DEBUG_TRACEJMP())
+ printk("%04x:%04x: JMP %s %04x:%04x\n", u , v, s, w, x);
#else
#define CALL_TRACE(u,v,w,x,s)
#define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#endif DEBUG
Index: include/x86emu/regs.h
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA  0x00000200
#define SYSMODE_PREFIX_ADDR  0x00000400

//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP  0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR  0x20000000
#define SYSMODE_HALTED     0x40000000

#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2

/*
  u32               mode;
  volatile int     intr;  /* mask of pending interrupts */
-int              debug;
+  volatile int    debug;
#endif DEBUG
-int            check;
+  int            check;
  u16            saved_ip;
  u16            saved_cs;
  int            enc_pos;
Index: include/x86emu/x86emu.h
```c
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+ #include <stdio.h>
#define printk printf
@endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+ define DEBUG_TRACEJMP_F        0x020000
+ define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++ */
@endif
-
@endif /* __X86EMU_X86EMU_H */
# ifndef __cplusplus
#*****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
#*****************************************************************************
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
```
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."
mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."
rm -rf x86emu

echo "Patching files..."
$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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Version 2, June 1991

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
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*/
/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/* System call numbers. */

/* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_geteuid     24
#define TARGET_OPENBSD_NR_seteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR.mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
# define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirent 196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR____syscall   198
#define TARGET_OPENBSD_NR_lseek        199
#define TARGET_OPENBSD_NR_truncate     200
#define TARGET_OPENBSD_NR_ftruncate    201
#define TARGET_OPENBSD_NR___sysctl      202
#define TARGET_OPENBSD_NR_munlock      203
#define TARGET_OPENBSD_NR_futurems      204
#define TARGET_OPENBSD_NR___sysctl      205
#define TARGET_OPENBSD_NR_mlock        206
#define TARGET_OPENBSD_NR_getpgid      207
#define TARGET_OPENBSD_NR_xfspioctl    208
#define TARGET_OPENBSD_NR_semget       221
#define TARGET_OPENBSD_NR_msgget       225
#define TARGET_OPENBSD_NR_msgsnd       226
#define TARGET_OPENBSD_NR_msgrcv       227
#define TARGET_OPENBSD_NR_shmat        228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep    240
#define TARGET_OPENBSD_NR_minherit     250
#define TARGET_OPENBSD_NR_rfork        251
#define TARGET_OPENBSD_NR_poll         252
#define TARGET_OPENBSD_NR_issetugid    253
#define TARGET_OPENBSD_NR_lchown       254
#define TARGET_OPENBSD_NR_getsid       255
#define TARGET_OPENBSD_NR_msync        256
#define TARGET_OPENBSD_NR_pipe         263
#define TARGET_OPENBSD_NR_fhopen       264
#define TARGET_OPENBSD_NR_preadv       267
#define TARGET_OPENBSD_NR_pwritev      268
#define TARGET_OPENBSD_NR_kqueue       269
#define TARGET_OPENBSD_NR_kevent       270
#define TARGET_OPENBSD_NR_mlockall     271
#define TARGET_OPENBSD_NRCumhur     272
#define TARGET_OPENBSD_NR_rmunlockcall 272
#define TARGET_OPENBSD_NR_getpeereid   273
#define TARGET_OPENBSD_NR_getresuid    281
#define TARGET_OPENBSD_NR_setresuid    282
#define TARGET_OPENBSD_NR_getresgid    283
#define TARGET_OPENBSD_NR_setresgid    284
#define TARGET_OPENBSD_NR_mquery       286
#define TARGET_OPENBSD_NR_closefrom    287
#define TARGET_OPENBSD_NR_signalstack  288
#define TARGET_OPENBSD_NR_shmget       289
#define TARGET_OPENBSD_NR_semop        290
#define TARGET_OPENBSD_NR_stat         291
#define TARGET_OPENBSD_NR_fstat        292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 *
 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp *
 */

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_setlogin 49
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_oommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgpr 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getittimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2     90
#define TARGET_NETBSD_NR_fcntl     92
#define TARGET_NETBSD_NR_select    93
#define TARGET_NETBSD_NR_fsync     95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect   98
#define TARGET_NETBSD_NR_compat_43_accept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_accept 101
#define TARGET_NETBSD_NR_compat_43_recv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind      104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen    106
#define TARGET_NETBSD_NR_compat_43_vsock 108
#define TARGET_NETBSD_NR_compat_43_vsock 109
#define TARGET_NETBSD_NR_compat_43_vsock 110
#define TARGET_NETBSD_NR_compat_43_vsock 111
#define TARGET_NETBSD_NR_compat_43_vsock 112
#define TARGET_NETBSD_NR_compat_43_vsock 113
#define TARGET_NETBSD_NR_compat_43_vsock 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
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#define TARGET_NETBSD_NR_writev    121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown    123
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#define TARGET_NETBSD_NR_compat_43_vsock 125
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#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename   128
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#define TARGET_NETBSD_NR_mkdir     132
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#define TARGET_NETBSD_NR_shutdown 134
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#define TARGET_NETBSD_NR_mkdir     136
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#define TARGET_NETBSD_NR_compat_43_vsock 141
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#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144  
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145  
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#define TARGET_NETBSD_NR_quotactl 148  
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#define TARGET_NETBSD_NR_compat_43_ogetsockname 150  
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#define TARGET_NETBSD_NR_setegid 182  
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#define TARGET_NETBSD_NR_lfs_bmapv 184  
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#define TARGET_NETBSD_NR_truncate 200  
#define TARGET_NETBSD_NR_ftruncate 201  
#define TARGET_NETBSD_NR___sysct1 202  
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#define TARGET_NETBSD_NR_compat_14_shmctl 229
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#define TARGET_NETBSD_NR__ksem_unlink 249
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#define TARGET_NETBSD_NR___mq_receive 264
#define TARGET_NETBSD_NR___mq_timedsend 265
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#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
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#define TARGET_NETBSD_NR___posix_chown 283
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#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
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#define TARGET_NETBSD_NR_fktrace 288
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#define TARGET_NETBSD_NR___lwp_setprivate 317
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#define TARGET_NETBSD_NR__lwp_unpark_all 322
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#define TARGET_NETBSD_NR_sa_yield 334
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#define TARGET_NETBSD_NR_pmc_control 342
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#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
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#define TARGET_NETBSD_NR_getvfsstat 356
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#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
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#define TARGET_NETBSD_NR_extattr_delete_fd 366
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#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
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#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
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#define TARGET_NETBSD_NR___fstat30 388
#define TARGET_NETBSD_NR___lstat30 389
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#define TARGET_NETBSD_NR_compat_30___fhstat30 392
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#define TARGET_NETBSD_NR___socket30 394
#define TARGET_NETBSD_NR___getfh30 395
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#define TARGET_NETBSD_NR_aio_fsync 401
#define TARGET_NETBSD_NR_aio_read 402
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#define TARGET_NETBSD_NR_mremap 411
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#define TARGET_NETBSD_NR_pset_destroy 413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR_pset_bind 415
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/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGETEXIST            17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR 20  /* Not a directory */
#define TARGET_EISDIR 21  /* Is a directory */
#define TARGET EINVAL 22  /* Invalid argument */
#define TARGET ENFILE 23  /* Too many open files in system */
#define TARGET EMFILE 24  /* Too many open files */
#define TARGET ENOTTY 25  /* Inappropriate ioctl for device */
#define TARGET ETXTBSY 26  /* Text file busy */
#define TARGET EFBIG 27  /* File too large */
#define TARGET ENOSPC 28  /* No space left on device */
#define TARGET EPIPE 29  /* Broken pipe */

/* math software */
#define TARGET EDOM 33  /* Numerical argument out of domain */
#define TARGET ERANGE 34  /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET EAGAIN 35  /* Resource temporarily unavailable */
#define TARGET EWOULDBLOCK EAGAIN  /* Operation would block */
#define TARGET EINPROGRESS 36  /* Operation now in progress */
#define TARGET EALREADY 37  /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET ENOTSOCK 38  /* Socket operation on non-socket */
#define TARGET EDESTADDRREQ 39  /* Destination address required */
#define TARGET EMSGSIZE 40  /* Message too long */
#define TARGET EPROTOTYPE 41  /* Protocol wrong type for socket */
#define TARGET ENOPROTOOPT 42  /* Protocol not available */
#define TARGET EPROTONOSUPPORT 43  /* Protocol not supported */
#define TARGET ESOCKTNOSUPPORT 44  /* Socket type not supported */
#define TARGET EPROTONOTSUPP 45  /* Operation not supported */
#define TARGET EPFNOSUPPORT 46  /* Protocol family not supported */
#define TARGET EAFNOSUPPORT 47  /* Address family not supported by protocol family */
#define TARGET EADDRINUSE 48  /* Address already in use */
#define TARGET EADDRNOTAVAIL 49  /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET ENETDOWN 50  /* Network is down */
#define TARGET ENETUNREACH 51  /* Network is unreachable */
#define TARGET ENETRESET 52  /* Network dropped connection on reset */
#define TARGET ECONNABORTED 53  /* Software caused connection abort */
#define TARGET ECONNRESET 54  /* Connection reset by peer */
#define TARGET ENOBUFS 55  /* No buffer space available */
#define TARGET EISCONN 56  /* Socket is already connected */
#define TARGET ENOTCONN 57  /* Socket is not connected */
#define TARGET ESHUTDOWN 58  /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59    /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60       /* Operation timed out */
#define TARGET_ECONNREFUSED 61    /* Connection refused */

#define TARGET_ELOOP 62           /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63    /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64       /* Host is down */
#define TARGET_EHOSTUNREACH 65    /* No route to host */
#define TARGET_ENOTEMPTY 66       /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67        /* Too many processes */
#define TARGET_EUSERS 68          /* Too many users */
#define TARGET_EDQUOT 69          /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70          /* Stale NFS file handle */
#define TARGET_EREMOTE 71         /* Too many levels of remote in path */
#define TARGET_EBADRPC 72         /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73    /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74    /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75   /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76    /* Bad procedure for program */

#define TARGET_ENOLCK 77          /* No locks available */
#define TARGET_ENOSYS 78          /* Function not implemented */

#define TARGET_EFTYPE 79          /* Inappropriate file type or format */
#define TARGET_EAUTH 80           /* Authentication error */
#define TARGET_ENEEDAUTH 81       /* Need authenticator */
#define TARGET_EIPSEC 82          /* IPsec processing failure */
#define TARGET_ENOATTR 83         /* Attribute not found */
#define TARGET_EILSEQ 84          /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85       /* No medium found */
#define TARGET_EMEDIUMTYPE 86     /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87       /* Conversion overflow */
#define TARGET_ECANCELLED 88      /* Operation canceled */
#define TARGET_EIDRM 89           /* Identifier removed */
#define TARGET_ENOMSG 90          /* No message of desired type */
#define TARGET_ELAST 90           /* Must be equal largest errno */

/* FreeBSD strace list
* 
*/

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(%""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(%""s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(%""s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(%""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(%""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_getset_fd, "__acl_getset_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_getset_file, "__acl_getset_file", "%s(%""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_getset_link, "__acl_getset_link", "%s(%""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(%""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(%""s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adtime, "adtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(%""s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(%""s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(%""s\", %#x)", NULL, NULL },

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{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(""%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(""%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", "minherit". "NULL", NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(""%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(""%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_s㎜suspend, "s㎜suspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_s㎜tk, "s㎜tk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(""%s"",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(""%s"",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(""%s",""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_byte, "byte", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(""%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "Unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait, "wait", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_geteuid 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_gettdid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct  51
  /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack  53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot    55
#define TARGET_FREEBSD_NR_revoke    56
#define TARGET_FREEBSD_NR_symlink   57
#define TARGET_FREEBSD_NR_readlink  58
#define TARGET_FREEBSD_NR_execve    59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot   61
  /* 62 is old fstat */
  /* 63 is old getkerninfo */
  /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
  /* 67 is obsolete vread */
  /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk   69
#define TARGET_FREEBSD_NR_sstk 70
  /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise   72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect  74
#define TARGET_FREEBSD_NR_madvise   75
  /* 76 is obsolete vhangup */
  /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore   78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid   82
#define TARGET_FREEBSD_NR_setitimer 83
  /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff    85
#define TARGET_FREEBSD_NR_getitimer 86
  /* 87 is old gethostname */
  /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2   90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select  93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket    97
#define TARGET_FREEBSD_NR_connect   98
  /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 139 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 140
#define TARGET_FREEBSD_NR_quotactl 141
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_setetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_getxattr 275
#define TARGET_FREEBSD_NR_setxattr 276
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312

/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321

/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_signalwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fhstatfs 397
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_nr_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR___umtx_lock 434
#define TARGET_FREEBSD_NR___umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_audithon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR___umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524


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 *
 * @(#)mman.h 8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
define TARGET_FREEBSD_MAP_FLAGMASK 0xff7

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 */

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */
#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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1.1418 raw-body 1.3.0

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1.1420 rdma-core 15 :6.el7

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Bill Fenner <fenner with research.att.com>
Blair Zajac <bzacac with geostaff.com>
Bruce Campbell <bruce.campbell with apnic.net>
Chin-A-Young <china with thewrittenword.com>
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Dan Dunn <dandunn with computer.org>
Daniel Pocock <daniel in pcock.com.au> rrd_create to mmap port
Dave Bodenstab <dave@bodenstab.org> AT style time in update, tclfixes
David Grimes <dgrimes with navisite.com> SQRT/SORT/REV/SHIFT/TREND
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Frank Strauss <strauss with escape.de> TCL bindings
Florian octo Forster <rrdtool nospam.verplant.org> rrd_restore libxml2 rewrite, deprecated function export,
Fidelis Assis <fidelis@pobox.com> lua bindings
Henrik Storner <henrik@hswn.dk> functions for min/max values of data in graph
Hermann Hueni <hueni@glue.ch> (SunOS porting)
Jakob Ilves <jilves@se.oracle.com> HPXU 11
Jeff R. Allen <jeff.allen@acm.org> (autoconfigure, portability)
Jeremy Fischer <jeremy@pobox.com> (Makefile changes & RPM builds)
Jess Couto Fandio
Joel Becker <jlb@raleigh.ibm.com> AIX
Joey Miller <joeym@inficad.com> php3 and php4 bindings
Jost.Krieger <Jost.Krieger@ruhr-uni-bochum.de>
Kai Siering <kai.siering@mediaways.net>
Kevin Brinnall <kbrinn@rufus.net> bugfixes in and additions to rrdcached, including journaling support
Larry Leszczynski <larryl@furph.com>
Mark Plaksin <happy@usg.edu> rrd_graph_v
Matt Chambers <matthew.chambers@vanderbilt.edu> --full-size-mode for rrdgraph
Melchior Rabe <rrdtool@mrab.de> -- legend position patch
McCreary mccreary@xanoon.colorado.edu
Mike Mitchell <mcm@unix.sas.com>
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Patrick Cherry <patrick@bytemark.co.uk>
Paul Joslin <Paul.Joslin@sdrc.com>
Peter Speck <speck@vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
Peter Stamfest <peter@stamfest.at> initial multi-thread support
Peter Breitenlohner <peb@mppmu.mpg.de> many patches for rrdtool 1.2.x
Philippe.Simonet <Philippe.Simonet@swisscom.com> (NT porting)
Poul-Henning Kamp <phk@freebsd.org> CDEF enhancements
REIBENSCUH Alfred <alfred.reibenschuh@it-austria.com> AIX
Radoslaw Karas <rkaras@tyndall.ie>
Rainer Bawidamann <Rainer.Bawidamann@informatik.uni-ulm.de>
Roman Hoogant <rohoogant@ee.ethz.ch>
Ronan Mullally <ronan@4L.ie>
Roger J. Meier <roger.meier@terreactive.ch> (arbitrary linelength in rrdtool)
Russ Wright <rwright@home.com>
Sean Summers <sean@fenstermaker.com> (RPM .spec)
Selena M Brewington <smbrewin@ichips.intel.com> add_ds
Shane O'Donnell <shaneo@opennms.org>
Simon Leinen <simon@switch.ch>
Steen Linden <Steen.Linden@ebone.net>
Sebastian Harl <sh@tokkee.org> debian packaging, rrdcached fixes and enhancements
Stefan Ludewig <Stefan.Ludewig@exitgames.com> 1.3 WIN32 Port
Stefan Mueller <s.mueller@computer.org> HPXU 11
Steve Harris <steveh@wesley.com.au> AIX portability
Steve Rader <rader@teak.wiscnet.net> (rrd.cgi debugging and LAST)
Terminator rAT <karl@schilke@eli.net>
Tobias Weingartner <weingart with cs.ualberta.ca>
Thomas Gutzler <thomas.gutzler with gmail.com> dashed lines
Tom Crawley <Tom.Crawley with hi.riotinto.com.au> (GCC&HP configuration)
Travis Brown <tebrown with csh.rit.edu>
Tuc <ttsg with ttsg.com>
Ulf Lilleengen <lulf with pvv.ntnu.no> Python binding for 'rrdtool first'
Ulrich Schilling <schilling with netz.uni-essen.de> AIX
Wim Heirman <wim.heirman elis.ugent.be> --units=si option
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Vytautas Zdanavicius <vytaszd@yahoo.com> -- python argument list exander
Martin Sperl <rrdtool martin.sperl.org> (CDEF prediction functions, libdbi)
Philippe Simonet <philippe.simonet with swisscom.ch> (Windows Binaries)
Alexander Lucke (lucke with dns-net.de) of DNS:NET Internet Services (www.dns-net.de) http://rrdtool.org
Hedley Simons <heds@metahusky.net>
Nicola Worthington <nicolaw@cpan.org>
Wegmann, Christof <Christof.Wegmann@exitgames.com> 1.3/trunk win32 port

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1.1487 ServiceLocator Default Implementation 2.4.0-b06

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1.1488 servlet-api 2.3

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package javax.servlet.jsp.tagext;

import java.io.Reader;
import java.io.Writer;
import java.io.IOException;
import javax.servlet.jsp.*;

/**
 * A JspWriter subclass that can be used to process body evaluations
 * so they can re-extracted later on.
 */

public abstract class BodyContent extends JspWriter {

    /**
     * Protected constructor.
     *
     * Unbounded buffer, no autoflushing.
     */

    protected BodyContent(JspWriter e) {
        super(UNBOUNDED_BUFFER , false);
        this.enclosingWriter = e;
    }

    /**
     * Redefine flush().
     * It is not valid to flush.
     */

    public void flush() throws IOException {
        throw new IOException("Illegal to flush within a custom tag");
    }

    /**
     * Clear the body.
     */

    public void clearBody() {
        try {
            this.clear();
        } catch (IOException ex) {
            // TODO -- clean this one up.
            throw new Error("internal error!");
        }
    }
}
/**
 * Return the value of this BodyContent as a Reader.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 * @returns the value of this BodyContent as a Reader
 */
public abstract Reader getReader();

/**
 * Return the value of the BodyContent as a String.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 * @returns the value of the BodyContent as a String
 */
public abstract String getString();

/**
 * Write the contents of this BodyContent into a Writer.
 * Subclasses are likely to do interesting things with the
 * implementation so some things are extra efficient.
 * @param out The writer into which to place the contents of
 * this body evaluation
 */
public abstract void writeOut(Writer out) throws IOException;

/**
 * Get the enclosing JspWriter
 * @returns the enclosing JspWriter passed at construction time
 */

public JspWriter getEnclosingWriter() {
  return enclosingWriter;
}

/**
 * private fields
 */

private JspWriter enclosingWriter;
**1.1489 set-immediate-shim 1.0.1**

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```
# Calling this script install-sh is preferred over install.sh, to prevent
# 'make' implicit rules from creating a file called install from it
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#
# This script is compatible with the BSD install script, but was written
# from scratch.
#
/*
 * include/linux/serial.h
 *
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 */
package oauth.signpost.commonshttp;

import java.io.IOException;
import oauth.signpost.AbstractOAuthProvider;
import oauth.signpost.http.HttpRequest;


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

    private static final long serialVersionUID = 1L;

    private transient HttpClient httpClient;

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

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

    /*
     * @link HttpClient
     */
}
String authorizationWebsiteUrl, HttpClient httpClient) {
    super(requestTokenEndpointUrl, accessTokenEndpointUrl, authorizationWebsiteUrl);
    this.httpClient = httpClient;
}

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

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

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

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

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import java.io.IOException;
import java.io.InputStream;
import java.util.Random;
import oauth.signpost.basic.UrlStringRequestAdapter;
import oauth.signpost.exception.OAuthCommunicationException;
import oauth.signpost.exception.OAuthExpectationFailedException;
import oauth.signpost.exception.OAuthMessageSignerException;
import oauth.signpost.http.HttpParameters;
import oauth.signpost.http.HttpRequest;
import oauth.signpost.signature.AuthorizationHeaderSigningStrategy;
import oauth.signpost.signature.HmacSha1MessageSigner;
import oauth.signpost.signature.OAuthMessageSigner;
import oauth.signpost.signature.QueryStringSigningStrategy;
import oauth.signpost.signature.SigningStrategy;

public abstract class AbstractOAuthConsumer implements OAuthConsumer {

    private static final long serialVersionUID = 1L;
    private String consumerKey, consumerSecret;

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

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            /**
             * ABC for consumer implementations. If you're developing a custom consumer you
             * will probably inherit from this class to save you a lot of work.
             *
             * @author Matthias Kaeppler
             */
private String token;
private OAuthMessageSigner messageSigner;
private SigningStrategy signingStrategy;

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

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

private boolean sendEmptyTokens;

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

public AbstractOAuthConsumer(String consumerKey, String consumerSecret) {
    this.consumerKey = consumerKey;
    this.consumerSecret = consumerSecret;
    setMessageSigner(new HmacSha1MessageSigner());
    setSigningStrategy(new AuthorizationHeaderSigningStrategy());
}

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

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

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

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

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

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

    requestParameters.remove(OAuth.OAUTH_SIGNATURE);
}
catch (IOException e) {
    throw new OAuthCommunicationException(e);
}

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

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

    return request;
}

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

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

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

    // revert to old strategy
    this.signingStrategy = oldStrategy;
    return request.getRequestUrl();
}

/**
 * Adapts the given request object to a Signpost {@link HttpRequest}. How
protected abstract HttpRequest wrap(Object request);

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

public String getToken() {
    return token;
}

public String getTokenSecret() {
    return messageSigner.getTokenSecret();
}

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

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

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

public HttpParameters getRequestParameters() {
    return requestParameters;
}

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

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

/**
 * Collects x-www-form-urlencoded body parameters as per OAuth Core 1.0 spec
 * section 9.1.1
 */
protected void collectBodyParameters(HttpRequest request, HttpParameters out) throws IOException {
    // collect x-www-form-urlencoded body params
    String contentType = request.getContentType();
    if (contentType != null && contentType.startsWith(OAuth.FORM_ENCODED)) {
InputStream payload = request.getMessagePayload();
out.putAll(OAuth.decodeForm(payload), true);
}
}

/**
* Collects HTTP GET query string parameters as per OAuth Core 1.0 spec
* section 9.1.1
*/

protected void collectQueryParameters(HttpRequest request, HttpParameters out) {

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

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

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

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*/

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

/**
* An object that converts literal text into a format safe for inclusion in a
* particular context (such as an XML document). Typically (but not always), the
* inverse process of "unescaping" the text is performed automatically by the
* relevant parser.
*
* <p>For example, an XML escaper would convert the literal string [@code
* "Foo<Bar>"] into [@code "Foo&lt;Bar&gt;"] to prevent [@code "<Bar>"] from
* being confused with an XML tag. When the resulting XML document is parsed,
* the parser API will return this text as the original literal string [@code
* "Foo<Bar>"].
*
* <p>An [@code Escaper] instance is required to be stateless, and safe when
* used concurrently by multiple threads.
*
* <p>Several popular escapers are defined as constants in the class [@link
* CharEscapers]. To create your own escapers, use [@link
* CharEscaperBuilder], or extend [@link CharEscaper] or [@code UnicodeEscaper].
*
*
*/

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

/**
 * Returns an [@code Appendable] instance which automatically escapes all
 * text appended to it before passing the resulting text to an underlying
 * [@code Appendable].
 *
<p>Note that this method may treat input characters differently depending on the specific escaper implementation.</p>

<ul>
<li>{@link UnicodeEscaper} handles including surrogate character pairs. If the input is badly formed the escaper should throw {@link IllegalArgumentException}.</li>
<li>{@link CharEscaper} handles Java characters independently and does not verify the input for well formed characters. A CharEscaper should not be used in situations where input is not guaranteed to be restricted to the Basic Multilingual Plane (BMP).</li>
</ul>

@param out the underlying {@code Appendable} to append escaped output to

@return an {@code Appendable} which passes text to {@code out} after escaping it.

*/

public Appendable escape(Appendable out);

1.1508 simple-fmt 0.1.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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

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

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

    public class SimpleOIDTextFormat implements OIDTextFormat {

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

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

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

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

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

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buf.append(t);
}
else if (!".".equals(t)) {
    value[size++] = (int) Long.parseLong(t.trim());
}
}
if (size < value.length) {
    int[] h = value;
    value = new int[size];
    System.arraycopy(h, 0, value, 0, size);
}
return value;

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

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 */
package org.snmp4j.util;

import java.text.*;

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

/**
 * The SimpleVariableTextFormat implements a simple textual representation for SNMP variables based on their type only.
 * No MIB information is used (can be used).
 *
 * @author Frank Fock
 * @version 1.10
 * @since 1.10
 */
public class SimpleVariableTextFormat implements VariableTextFormat {

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

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

/**
 * The SimpleVariableTextFormat implements a simple textual representation for SNMP variables based on their type only.
 * No MIB information is used (can be used).
 *
 * @author Frank Fock
 * @version 1.10
 * @since 1.10
 */
public Variable parse(int smiSyntax, String text) throws ParseException {
    Variable v = AbstractVariable.createFromSyntax(smiSyntax);
    if (v instanceof AssignableFromString) {
        ((AssignableFromString)v).setValue(text);
    }
    return v;
}

public Variable parse(OID classOrInstanceOID, String text) throws ParseException {
    throw new UnsupportedOperationException();
}

public VariableBinding parseVariableBinding(String text) throws ParseException {
    int assignmentPos = text.indexOf(" = ");
    if (assignmentPos <= 0) {
        throw new ParseException("Could not locate assignment ' = ' string in " +
            text, 0);
    }
    OID oid = new OID(SNMP4JSettings.getOIDTextFormat().
        parse(text.substring(0, assignmentPos)));
    Variable var = parse(oid, text.substring(assignmentPos+3));
    return new VariableBinding(oid, var);
}
package org.snmp4j;

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

/**
 * The <code>MessageDispatcherImpl</code> decodes and dispatches incoming
 * messages using [@link MessageProcessingModel] instances and encodes
 * and sends outgoing messages using an appropriate [@link TransportMapping]
 * instances.
 * <p>
 * The method [@link #processMessage] will be called from a
 * <code>TransportMapping</code> whereas the method [@link #sendPdu] will be
 * called by the application.
 * <p>
 * @see Snmp
 * @see TransportMapping
 * @see MessageProcessingModel
 * @see MPv1
 * @see MPv2c
 * @see MPv3
public class MessageDispatcherImpl implements MessageDispatcher {

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

    private List<MessageProcessingModel> mpm = new ArrayList<MessageProcessingModel>(3);
    private Map<Class<? extends Address>, List<TransportMapping>> transportMappings =
        new Hashtable<Class<? extends Address>, List<TransportMapping>>(5);

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

    private boolean checkOutgoingMsg = true;

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

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

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

/**
 * Adds a transport mapping. When an outgoing message is processed where
 * no specific transport mapping has been specified, then the
 * message dispatcher will use the transport mapping
 * that supports the supplied address class of the target.
 * @param transport
 *    a TransportMapping instance. If there is already another transport
 *    mapping registered that supports the same address class, then
 *    &lt;code&gt;transport&lt;/code&gt; will be registered but not used for messages
 *    without specific transport mapping.
 */
@SuppressWarnings("unchecked")
public synchronized void addTransportMapping(TransportMapping transport) {
    List<TransportMapping> transports =
        transportMappings.get(transport.getSupportedAddressClass());
    if (transports == null) {
        transports = new LinkedList<TransportMapping>();
        transportMappings.put(transport.getSupportedAddressClass(), transports);
    }
    transports.add(transport);
}

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

/**
 * Gets a collection of all registered transport mappings.

public Collection<TransportMapping> getTransportMappings() {
    ArrayList<TransportMapping> l = new ArrayList<TransportMapping>(transportMappings.size());
    synchronized (transportMappings) {
        for (Iterator<List<TransportMapping>> it = transportMappings.values().iterator(); it.hasNext();) {
            List<? extends TransportMapping> tm = it.next();
            l.addAll(tm);
        }
    }
    return l;
}

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

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

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

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

/**
 * Actually decodes and dispatches an incoming SNMP message using the supplied
 * message processing model.
 * *
 * @param sourceTransport
 *    a <code>TransportMapping</code> that matches the incomingAddress type.
 * @param mp
protected void dispatchMessage(TransportMapping sourceTransport,
     MessageProcessingModel mp,
     Address incomingAddress,
     BERInputStream wholeMessage,
     TransportStateReference tmStateReference) throws IOException {
    MutablePDU pdu = new MutablePDU();
    Integer32 messageProcessingModel = new Integer32();
    Integer32 securityModel = new Integer32();
    OctetString securityName = new OctetString();
    Integer32 securityLevel = new Integer32();

    PduHandle handle = createPduHandle();

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

    int status = mp.prepareDataElements(this, incomingAddress, wholeMessage,
        tmStateReference,
        messageProcessingModel, securityModel,
        securityName, securityLevel, pdu,
        handle, maxSizeRespPDU, statusInfo,
        mutableStateReference);

    if (mutableStateReference.getStateReference() != null) {
        // make sure transport mapping is set
        mutableStateReference.
            getStateReference().setTransportMapping(sourceTransport);
    }

    if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
        // dispatch it
        CommandResponderEvent e =
    }
}
new CommandResponderEvent(this,
        sourceTransport,
        incomingAddress,
        messageProcessingModel.getValue(),
        securityModel.getValue(),
        securityName.getValue(),
        securityLevel.getValue(),
        handle,
        pdu.getPdu(),
        maxSizeRespPDU.getValue(),
        mutableStateReference.getStateReference());

fireProcessPdu(e);
}
else {
    switch (status) {
        case SnmpConstants.SNMP_MP_UNSUPPORTED_SECURITY_MODEL:
        case SnmpConstants.SNMPv3_USM_AUTHENTICATION_FAILURE:
        case SnmpConstants.SNMPv3_USM_UNSUPPORTED_SECURITY_LEVEL:
        case SnmpConstants.SNMPv3_USM_UNKNOWN_SECURITY_NAME:
        case SnmpConstants.SNMPv3_USM_AUTHENTICATION_ERROR:
        case SnmpConstants.SNMPv3_USM_NOT_IN_TIME_WINDOW:
        case SnmpConstants.SNMPv3_USM_UNSUPPORTED_AUTHPROTOCOL:
        case SnmpConstants.SNMPv3_USM_UNKNOWN_ENGINEID:
        case SnmpConstants.SNMP_MP_WRONG_USER_NAME:
        case SnmpConstants.SNMPv3_TSM_INADEQUATE_SECURITY_LEVELS:
        case SnmpConstants.SNMP_MP_USM_ERROR: {
            AuthenticationFailureEvent event =
                new AuthenticationFailureEvent(this, incomingAddress,
                    sourceTransport, status,
                    wholeMessage);
            fireAuthenticationFailure(event);
            break;
        }
    }
    logger.warn("statusInfo=\"+statusInfo+\", status=\"+status);
Address incomingAddress,
BERInputStream wholeMessage,
TransportStateReference tmStateReference) {
fireIncrementCounter(new CounterEvent(this, SnmpConstants.snmpInPkts));
if (!wholeMessage.markSupported()) {
    String txt = "Message stream must support marks";
    logger.error(txt);
    throw new IllegalArgumentException(txt);
}
try {
    wholeMessage.mark(16);
    BER.MutableByte type = new BER.MutableByte();
    // decode header but do not check length here, because we do only decode
    // the first 16 bytes.
    BER.decodeHeader(wholeMessage, type, false);
    if (type.getValue() != BER.SEQUENCE) {
        logger.error("ASN.1 parse error (message is not a sequence)");
        CounterEvent event = new CounterEvent(this,
            SnmpConstants.snmpInASNParseErrs);
        fireIncrementCounter(event);
    }
    Integer32 version = new Integer32();
    version.decodeBER(wholeMessage);
    MessageProcessingModel mp = getMessageProcessingModel(version.getValue());
    if (mp == null) {
        logger.warn("SNMP version "+version+" is not supported");
        CounterEvent event = new CounterEvent(this,
            SnmpConstants.snmpInBadVersions);
        fireIncrementCounter(event);
    } else {
        // reset it
        wholeMessage.reset();
        // dispatch it
        dispatchMessage(sourceTransport, mp, incomingAddress, wholeMessage, tmStateReference);
    }
} catch (IOException iox) {
    iox.printStackTrace();
    logger.warn(iox);
    CounterEvent event =
        new CounterEvent(this, SnmpConstants.snmpInvalidMsgs);
    fireIncrementCounter(event);
} catch (Exception ex) {
    logger.error(ex);
    if (logger.isDebugEnabled()) {
        ex.printStackTrace();
    }
public PduHandle sendPdu(Target target,
  PDU pdu,
  boolean expectResponse) throws MessageException {
  return sendPdu(null, target, pdu, expectResponse);
}

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

// check if contextEngineID discovery is needed

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

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

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

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

CertifiedIdentity certifiedIdentity = null;
if (target instanceof CertifiedIdentity) {
    certifiedIdentity = (CertifiedIdentity) target;
}
TransportStateReference tmStateReference =
    new TransportStateReference(transport,
        transportAddress,
        new OctetString(securityName),
        SecurityLevel.get(securityLevel),
        SecurityLevel.undefined,
        false, null, certifiedIdentity);
configureAuthoritativeEngineID(target, mp);
BEROutputStream outgoingMessage = new BEROutputStream();
int status = mp.prepareOutgoingMessage(transportAddress,
    transport.getMaxInboundMessageSize(),
    messageProcessingModel,
    securityModel,
    securityName,
    securityLevel,
    pdu,
    expectResponse,
    pduHandle,
    destAddress,
    outgoingMessage,
    tmStateReference);

if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
    // inform callback about PDU new handle
    if (pduHandleCallback != null) {
        pduHandleCallback.pduHandleAssigned(pduHandle, pdu);
    }
    byte[] messageBytes = outgoingMessage.getBuffer().array();
    sendMessage(transport, transportAddress, messageBytes, tmStateReference);
} else {
    throw new MessageException("Message processing model "+
        mp.getID()+" returned error: "+
        SnmpConstants.mpErrorMessage(status), status);
}
return pduHandle;
}
catch (IndexOutOfBoundsException iobex) {
    throw new MessageException("Unsupported message processing model: "+
        messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL,
        iobex);
}
catch (MessageException mex) {
    if (logger.isDebugEnabled()) {
        mex.printStackTrace();
    }
    throw mex;
}
catch (IOException iox) {
    if (logger.isDebugEnabled()) {
        iox.printStackTrace();
    }
    throw new MessageException(iox.getMessage(), SnmpConstants.SNMP_MD_ERROR, iox);
}
protected void configureAuthoritativeEngineID(Target target, MessageProcessingModel mp) {
    if ((target instanceof UserTarget) && (mp instanceof MPv3)) {
        UserTarget userTarget = (UserTarget)target;
        if ((userTarget.getAuthoritativeEngineID() != null) && (userTarget.getAuthoritativeEngineID().length > 0)) {
            ((MPv3)mp).addEngineID(target.getAddress(), new OctetString(userTarget.getAuthoritativeEngineID()));
        }
    }
}

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

/**
   * Checks outgoing messages for consistency between PDU and target used.
   * @param transportAddress
   *    the target address.
   * @param messageProcessingModel
   *    the message processing model to be used.
   * @param pdu
   *    the PDU to be sent.
   * @throws MessageException
   *    if unrecoverable inconsistencies have been detected.
   */
protected void checkOutgoingMsg(Address transportAddress, int messageProcessingModel, PDU pdu)
    throws MessageException
{
    if (checkOutgoingMsg) {
        if (messageProcessingModel == MessageProcessingModel.MPv1 || SNMP4JSettings.isNoGetBulk()) {
            if (pdu.getType() == PDU.GETBULK) {
                if (messageProcessingModel == MessageProcessingModel.MPv1) {
                    logger.warn("Converting GETBULK PDU to GETNEXT for SNMPv1 target: "+transportAddress);
                } else {
                    logger.info("Converting GETBULK PDU to GETNEXT for target: "+transportAddress);
                }
                pdu.setType(PDU.GETNEXT);
            } else {
                logger.warn("Converting GETBULK PDU to GETNEXT for target: "+transportAddress);
            }
        } else { 
            pdu.setType(PDU.GETNEXT);
        }
        pdu.setMaxRepetitions(1);
        pdu.setNonRepeaters(0);
    }
}
public int returnResponsePdu(int messageProcessingModel,
    int securityModel,
    byte[] securityName,
    int securityLevel,
    PDU pdu,
    int maxSizeResponseScopedPDU,
    StateReference stateReference,
    StatusInformation statusInformation)
    throws MessageException
{
    try {
        MessageProcessingModel mp =
            getMessageProcessingModel(messageProcessingModel);
        if (mp == null) {
            throw new MessageException("Unsupported message processing model: ",
            + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL);
        }
        TransportMapping transport = stateReference.getTransportMapping();
        if (transport == null) {
            transport = getTransport(stateReference.getAddress());
        }
        if (transport == null) {
            throw new MessageException("Unsupported address class (transport mapping): ",
            + stateReference.getAddress().getClass().getName(),
            SnmpConstants.SNMP_MD_UNSUPPORTED_ADDRESS_CLASS);
        }
        BEROutputStream outgoingMessage = new BEROutputStream();
        int status = mp.prepareResponseMessage(messageProcessingModel,
            transport.getMaxInboundMessageSize(),
            securityModel,
            securityName, securityLevel, pdu,
            maxSizeResponseScopedPDU,
            stateReference,
            statusInformation,
            outgoingMessage);
        if (status == SnmpConstants.SNMP_MP_OK) {
            TransportStateReference tmStateReference = null;
            if (stateReference.getSecurityStateReference() instanceof TsmSecurityStateReference) {
                tmStateReference = ((TsmSecurityStateReference)
                    stateReference.getSecurityStateReference()).getTmStateReference();
            }
            sendMessage(transport,
                stateReference.getAddress(),
                tmStateReference,
outgoingMessage.getBuffer().array(),
   tmStateReference);
}
return status;
}
catch (ArrayIndexOutOfBoundsException aex) {
   throw new MessageException("Unsupported message processing model: ",
       + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL,
   aex);
}
catch (IOException iox) {
   throw new MessageException(iox.getMessage(), SnmpConstants.SNMP_MD_ERROR, iox);
}
}

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

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

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

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

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

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

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

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

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

/**
* Returns whether consistency checks for outgoing messages are activated.
* @return
*    if <code>true</code> outgoing messages are checked for consistency.
*
public boolean isCheckOutgoingMsg() {
    return checkOutgoingMsg;
}

/**
 * Adds a listener for authentication failure events caused by unauthenticated
 * incoming messages.
 * @param l
 *    the <code>AuthenticationFailureListener</code> to add.
 * @since 1.5
 */
public synchronized void addAuthenticationFailureListener(
    AuthenticationFailureListener l) {
    if (authenticationFailureListeners == null) {
        authenticationFailureListeners = new Vector<AuthenticationFailureListener>(2);
    }
    if (!authenticationFailureListeners.contains(l)) {
        authenticationFailureListeners.add(l);
    }
}

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

/**
 * Fires an <code>AuthenticationFailureEvent</code> to all registered
 * listeners.
 * @param event
 *   the event to fire.
 */
protected void fireAuthenticationFailure(AuthenticationFailureEvent event) {
    if (authenticationFailureListeners != null) {
        List<AuthenticationFailureListener> listeners = authenticationFailureListeners;
        for (AuthenticationFailureListener listener : listeners) {
            listener.authenticationFailure(event);
        }
    }
}
public PduHandle sendPdu(TransportMapping transportMapping,
        Target target,
        PDU pdu,
        boolean expectResponse) throws MessageException {
    return sendPdu(transportMapping, target, pdu, expectResponse, null);
}
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That's all there is to it!
package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;
import org.aopalliance.aop.Advice;
import org.aspectj.lang.reflect.PerClauseKind;
import org.springframework.aop.Pointcut;
import org.springframework.aop.aspectj.AspectJExpressionPointcut;
import org.springframework.aop.aspectj.AspectJPrecedenceInformation;
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

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

class InstantiationModelAwarePointcutAdvisorImpl
    implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {
    private final AspectJExpressionPointcut declaredPointcut;
private Pointcut pointcut;
private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;
private final Method method;
private final boolean lazy;
private final AspectJAdvisorFactory atAspectJAdvisorFactory;
private Advice instantiatedAdvice;
private int declarationOrder;
private String aspectName;
private Boolean isBeforeAdvice;
private Boolean isAfterAdvice;

public InstantiationModelAwarePointcutAdvisorImpl(AspectJAdvisorFactory af, AspectJExpressionPointcut ajexp, MetadataAwareAspectInstanceFactory aif, Method method, int declarationOrderInAspect, String aspectName) {
    this.declaredPointcut = ajexp;
    this.method = method;
    this.atAspectJAdvisorFactory = af;
    this.aspectInstanceFactory = aif;
    this.declarationOrder = declarationOrderInAspect;
    this.aspectName = aspectName;

    if (aif.getAspectMetadata().isLazilyInstantiated()) {
        // Static part of the pointcut is a lazy type.
        Pointcut preInstantiationPointcut = Pointcuts.union(aif.getAspectMetadata().getPerClausePointcut(), this.declaredPointcut);
        // Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
        // If it's not a dynamic pointcut, it may be optimized out
        // by the Spring AOP infrastructure after the first evaluation.
        this.pointcut = new PerTargetInstantiationModelPointcut(this.declaredPointcut, preInstantiationPointcut, aif);
        this.lazy = true;
    } else {
        // A singleton aspect.
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
        this.pointcut = declaredPointcut;
        this.lazy = false;
    }
}
public Pointcut getPointcut() {
    return this.pointcut;
}

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

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

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

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

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

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

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

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

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

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

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

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

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
    AspectJAnnotation<? extends AspectJAnnotation> aspectJAnnotation =
    AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
    if (aspectJAnnotation == null) {
        this.isBeforeAdvice = false;
        this.isAfterAdvice = false;
    }
}
else {
    switch (aspectJAnnotation.getAnnotationType()) {
    case AtAfter:
    case AtAfterReturning:
    case AtAfterThrowing:
        this.isAfterAdvice = true;
        this.isBeforeAdvice = false;
        break;
    case AtAround:
    case AtPointcut:
        this.isAfterAdvice = false;
        this.isBeforeAdvice = false;
        break;
    case AtBefore:
        this.isAfterAdvice = false;
        this.isBeforeAdvice = true;
    }
    }
}

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

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

    private final AspectJExpressionPointcut declaredPointcut;
    private final Pointcut preInstantiationPointcut;
    private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

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

    @Override
    public boolean matches(JoinPoint joinPoint) {
        return declaredPointcut.matches(joinPoint) && preInstantiationPointcut.matches(joinPoint);
    }

    @Override
    public boolean invoke(JoinPoint joinPoint, AdviceMethodInterceptor adviceMethodInterceptor) {
        return declaredPointcut.invoke(joinPoint, adviceMethodInterceptor);
this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;

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

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

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

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*/

package org.springframework.aop.aspectj.annotation;

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

/**
* Implementation of [@link MetadataAwareAspectInstanceFactory] that
* creates a new instance of the specified aspect class for every
* [@link #getAspectInstance()] call.

import org.springframework.aop.aspectj.annotation;
public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {

    private final AspectMetadata metadata;

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

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

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

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 */
package org.springframework.aop.aspectj;

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

/**
 * Implementation of {@link AspectInstanceFactory} that creates a new instance
 * of the specified aspect class for every {@link #getAspectInstance()} call.
 * @param aspectClass the aspect class
 * @since 2.0.4
 */
public class SimpleAspectInstanceFactory implements AspectInstanceFactory {

    private final Class aspectClass;

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

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

    public final Object getAspectInstance() {
        try {
            return this.aspectClass.newInstance();
        } catch (InstantiationException | IllegalAccessException e) {
            throw new AopConfigException("Could not create instance of aspect class");
        }
    }
}

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 */
catch (InstantiationException ex) {
    throw new AopConfigException("Unable to instantiate aspect class "] + this.aspectClass.getName() + "]", ex);
}
catch (IllegalAccessException ex) {
    throw new AopConfigException("Cannot access element class ["] + this.aspectClass.getName() + "]", ex);
}

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

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

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

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package org.springframework.aop.config;

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

/**
 * Implementation of {@link AspectInstanceFactory} that locates the aspect from the
 * {@link org.springframework.beans.factory.BeanFactory} using a configured bean name.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
public class SimpleBeanFactoryAwareAspectInstanceFactory implements AspectInstanceFactory,
    BeanFactoryAware {

    private String aspectBeanName;
    private BeanFactory beanFactory;

    /**
     * Set the name of the aspect bean. This is the bean that is returned when calling
     * {@link #getAspectInstance()}.
     */
    public void setAspectBeanName(String aspectBeanName) {
        this.aspectBeanName = aspectBeanName;
    }

    public void setBeanFactory(BeanFactory beanFactory) {
        this.beanFactory = beanFactory;
        if (!StringUtils.hasText(this.aspectBeanName)) {
            throw new IllegalArgumentException("'aspectBeanName' is required");
        }
    }

    /**
public Object getAspectInstance() {
    return this.beanFactory.getBean(this.aspectBeanName);
}

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

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

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*/

package org.springframework.aop.interceptor;

import org.aopalliance.intercept.MethodInvocation;
import org.apache.commons.logging.Log;
* in a chain to display verbose trace information about intercepted method
* invocations, with method entry and method exit info.
* 
* <p>Consider using <code>CustomizableTraceInterceptor</code> for more
* advanced needs.
* 
* @author Dmitriy Kopylenko
* @author Juergen Hoeller
* @since 1.2
* @see CustomizableTraceInterceptor
*/

public class SimpleTraceInterceptor extends AbstractTraceInterceptor {

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

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

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

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

package org.springframework.aop.target;

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 */

public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

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

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

public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

    public Object getTarget() throws Exception {
        return getBeanFactory().getBean(getTargetBeanName());
    }
}
1.1558 spring-boot 1.2.3

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1.1575 stax2-api 3.1.4

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1.1578 stream-combiner 0.0.4

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1.1580 stream-throttle 0.1.3

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1.1583 Streaming API for XML (STAX API 1.0)

1.0.1

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Guido van Rossum
John P. Rouillard
William A. Rowe Jr.
Alain Roy
Elan Ruusamae
Eygene Ryabinkin
Yuichi SATO
Wilfredo Sanchez
Jean-Francois Saucier
Patrick Schoenfeld
Arno Schuring
Dougal Scott
Abel Sendn
Nick Sieger
Thor Lancelot Simon
Marc Slemko
Andy Smith
Igor Sobrado
Aaron Spangler
Cloyce D. Spradling
Matthew Stier
Tobias Stoeckmann
Russell Street
Tilo Stritzky
Michael Stroucken
Yasuaki Taniguchi
Robert Tarrall
Matthew Thomas
Giles Todd
Martin Toft
Chris Torek
Darren Tucker
Robert Uhl
Mikel Olasagasti Uranga
Petr Uzel
Reznic Valery
Martynas Venckus
Klaus Wagner
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Wylmer Wang
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Timm Wetzel
Marco van Wieringen
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John Zolnowsky

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Jean-loup Gailly       Mark Adler
jloup@gzip.org         madler@alumni.caltech.edu
The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krase, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieujsma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
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Percival, Ted
Perera, Andres
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Pickett, Joel
Plotnick, Alex
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Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
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Spradling, Cloyce D.
Stier, Matthew
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Toft, Martin
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Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
The following people have worked to translate sudo into other languages:

- Blettermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chernoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frédéric
- Hein, Jochen
- Hufthammer, Karl Ove
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
- Kelemen, Gbor
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- Marchal, Frédéric
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- Sarer, zgr
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Jean-loup Gailly        Mark Adler
1.1602 supermin 5.1.16 :4.el7

1.1602.1 Available under license:

From f5a3deeef588759c49dc862427a265aced612002d Mon Sep 17 00:00:00 2001
From: "Richard W.M. Jones" <rjones@redhat.com>
Date: Wed, 6 Jul 2016 12:12:10 +0100
Subject: [PATCH 5/7] ext2: Don't load whole files into memory when copying to
the appliance (RHBZ#1113065).

Obviously for very large files this is going to be a problem, as well
as not being very cache efficient.

libext2fs can handle writes to parts of files just fine so copy files
in blocks.

Also demote the "Permission denied" error to a warning, and add some
explanatory text telling people not to use sudo.

---
src/ext2fs-c.c | 127 +++++++++++++++++++++++++++++++++++----------------------
1 file changed, 78 insertions(+), 49 deletions(-)
diff --git a/src/ext2fs-c.c b/src/ext2fs-c.c
index cb9282b..96a3de0 100644
--- a/src/ext2fs-c.c
+++ b/src/ext2fs-c.c
@@ -185,6 +185,7 @@ supermin_ext2fs_read_bitmaps (value fsv)
 static void ext2_mkdir (ext2_filsys fs, ext2_ino_t dir_ino, const char *dirname, const char *basename, mode_t
     mode, uid_t uid, gid_t gid, time_t cttime, time_t atime, time_t mtime);
 static void ext2_empty_inode (ext2_filsys fs, ext2_ino_t dir_ino, const char *dirname, const char *basename,
     mode_t mode, uid_t uid, gid_t gid, time_t cttime, time_t atime, time_t mtime, int major, int minor, int dir_ft,
     ext2_ino_t *ino_ret);
 static void ext2_write_file (ext2_filsys fs, ext2_ino_t ino, const char *buf, size_t size, const char *filename);
+static void ext2_write_host_file (ext2_filsys fs, ext2_ino_t ino, const char *src, const char *filename);
 static void ext2_link (ext2_filsys fs, ext2_ino_t dir_ino, const char *basename, ext2_ino_t ino, int dir_ft);
 static void ext2_clean_path (ext2_filsys fs, ext2_ino_t dir_ino, const char *dirname, const char *basename, int
     isdir);
 static void ext2_copy_file (struct ext2_data *data, const char *src, const char *dest);
@@ -500,6 +501,81 @@ ext2_write_file (ext2_filsys fs,
     ext2_error_to_exception ("ext2fs_write_inode", err, filename);
 }
+/* Same as ext2_write_file, but it copies the file contents from the
+ * host. You must create the file first with ext2_empty_inode, and
+ * the host file must be a regular file.
+ */
static void ext2_write_host_file (ext2_filsys fs, ext2_inode_t ino, const char *src, /* source (host) file */ const char *filename) {
  int fd;
  char buf[BUFSIZ];
  ssize_t r;
  size_t size = 0;
  errcode_t err;
  ext2_file_t file;
  unsigned int written;

  fd = open (src, O_RDONLY);
  if (fd == -1) {
    static int warned = 0;

    /* We skip unreadable files. However if the error is -EACCES then
     * modify the message so as not to frighten the horses.
     * */
    fprintf (stderr, "supermin: warning: %s: %m (ignored)\n", filename);
    if (errno == EACCES && !warned) {
      fprintf (stderr, "Some distro files are not public readable, so supermin cannot copy them\n" "into the appliance. This is a problem with your Linux distro. Please ask\n" "your distro to stop doing pointless security by obscurity.\n" "You can ignore these warnings. You *do not* need to use sudo.\n");
      warned = 1;
    }
    return;
  }

  err = ext2fs_file_open2 (fs, ino, NULL, EXT2_FILE_WRITE, &file);
  if (err != 0)
    ext2_error_to_exception ("ext2fs_file_open2", err, filename);

  while ((r = read (fd, buf, sizeof buf)) > 0) {
    err = ext2fs_file_write (file, buf, r, &written);
    if (err != 0)
      ext2_error_to_exception ("ext2fs_file_write", err, filename);
    if ((ssize_t) written != r)
      caml_failwith ("ext2fs_file_write: requested write size != bytes written");
    size += written;
  }

  if (r == -1)
    unix_error (errno, (char *) "read", caml_copy_string (filename));
}
if (close (fd) == -1)
  unix_error (errno, (char *) "close", caml_copy_string (filename));

/* Flush out the ext2 file. */
err = ext2fs_file_flush (file);
if (err != 0)
  ext2_error_to_exception ("ext2fs_file_flush", err, filename);
err = ext2fs_file_close (file);
if (err != 0)
  ext2_error_to_exception ("ext2fs_file_close", err, filename);

/* Flush out the ext2 file. */
err = ext2fs_file_flush (file);
if (err != 0)
  ext2_error_to_exception ("ext2fs_file_flush", err, filename);
err = ext2fs_file_close (file);
if (err != 0)
  ext2_error_to_exception ("ext2fs_file_close", err, filename);

/* Update the true size in the inode. */
struct ext2_inode inode;
err = ext2fs_read_inode (fs, ino, &inode);
if (err != 0)
  ext2_error_to_exception ("ext2fs_read_inode", err, filename);
inode.i_size = size;
err = ext2fs_write_inode (fs, ino, &inode);
if (err != 0)
  ext2_error_to_exception ("ext2fs_write_inode", err, filename);
}

/* This is just a wrapper around ext2fs_link which calls
 * ext2fs_expand_dir as necessary if the directory fills up. See
 * definition of expand_dir in the sources of debugfs.
@@ -589,43 +665,6 @@ ext2_clean_path (ext2_filsys fs, ext2_ino_t dir_ino,
/* else it's a directory, what to do? XXX */
}

/* Read in the whole file into memory. Check the size is still 'size'. */
static char *
read_whole_file (const char *filename, size_t size)
{
  char *buf = malloc (size);
  if (buf == NULL)
    caml_raise_out_of_memory ();

  int fd = open (filename, O_RDONLY);
  if (fd == -1) {
    /* Skip unreadable files. */
    fprintf (stderr, "supermin: open: %s: %m\n", filename);
    free (buf);
    return NULL;
  }

  size_t n = 0;
  char *p = buf;
while (n < size) {
  ssize_t r = read (fd, p, size - n);
  if (r == -1)
    unix_error (errno, (char *)"read", caml_copy_string (filename));
  if (r == 0) {
    fprintf (stderr, "supermin: end of file reading '%s'
", filename);
    caml_invalid_argument ("ext2fs: file has changed size unexpectedly");
  }
  n += r;
  p += r;
}

if (close (fd) == -1)
  unix_error (errno, (char *)"close", caml_copy_string (filename));

return buf;

/* Copy a file (or directory etc) from the host. */
static void
ext2_copy_file (struct ext2_data *data, const char *src, const char *dest)
{
  if (S_ISREG (statbuf.st_mode)) {
    ext2_empty_inode (data->fs, dir_ino, dirname, basename,
    statbuf.st_mode, statbuf.st_uid, statbuf.st_gid,
    statbuf.st_ctime, statbuf.st_atime, statbuf.st_mtime,
    0, 0, EXT2_FT_REG_FILE, &ino);

    if (statbuf.st_size > 0)
      ext2_write_host_file (data->fs, ino, src, dest);
  }
  ext2_empty_inode (data->fs, dir_ino, dirname, basename,
  statbuf.st_mode, statbuf.st_uid, statbuf.st_gid,
  statbuf.st_ctime, statbuf.st_atime, statbuf.st_mtime,
  0, 0, EXT2_FT_REG_FILE, &ino);

  if (statbuf.st_size > 0)
    ext2_write_file (data->fs, ino, buf, statbuf.st_size, dest);
  free (buf);
}

/* Create a symlink. */
else if (S_ISLNK (statbuf.st_mode)) {
--

2.7.4

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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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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
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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
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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
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1.1612 syslinux 4.05 :13.el7

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1.1614 system-config-firewall 1.2.27 :7.2.el6_6

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Version 2.1, February 1999

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1621 tar-pack 3.1.2
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:3.20090921gitdf3cb4.2.el6
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1.1626 tcsh 6.17 :24.el6
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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!

(In alphabetical order)

Tom Kludy (tom.kludy@citrix.com)
Yarek Kowalik (Yarek.Kowalik@Sitraka.com)
Edward Lam
Matt Landau
Avner Lottem (avner.lottem@intel.com)
bucas (?) (blucas@broadcom.com)
Chun-Pong Yu (bol.pacific.net.sg)
TAGA nayuta (nayuta@is.s.u-tokyo.ac.jp)
Mike Thomas (miketh@brisbane.paradigmgeo.com)
Mark Tucker (mtucker@fiji.sidefx.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 sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/**************************** local defines **************************/

#undef NLS_CATALOGS
#endif /* _h_config */
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1.1630 tfunk 3.0.1

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#
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**1.1644 to-absolute-glob 0.1.1**

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1.1645 to-array 0.1.4

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1.1646 to-array 0.1.3

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1.1647 Toastr 2.3.1
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1.1648 tomcat 7.0.76 :3.el7_4
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- jsp_2_2.xsd
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1.1668 tryor 0.1.2

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1.1669 ttmkfdir 3.0.9 :42.el7
1.1669.1 Available under license :
   From RPM File Metadata: LGPLv2+

1.1670 ttmkfdir 3.0.9 :32.1.el6
1.1670.1 Available under license :
   Summary: Utility used to create fonts.scale files for truetype fonts
   Name: ttmkfdir
   Version: 3.0.9
   Release: 1
   #URL:
   Source0: %{name}-%{version}.tar.bz2
   License: GPL
   Group: Applications/System
   BuildRoot: %{_tmppath}/%{name}-root
   BuildRequires: freetype-devel >= 2.0
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mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
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1.1698 upstart 0.6.5 :12.el6

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1.1706 utf8 2.1.0

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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/optional): 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 2nd primary partition
1beb87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f8e 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  [fs size 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 [fs size 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)
1.1709 util-linux-ng 2.17.2 :12.9.el6
1.1709.1 Available under license :

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

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
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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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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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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that program using a modified version of the Library.

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

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
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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.

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

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

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

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

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

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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Google App Engine Terms of Service
Your Agreement with Google

This License Agreement for Google App Engine (the "Agreement") is made and entered into by and between Google Inc., a Delaware corporation, with offices at 1600 Amphitheatre Parkway, Mountain View 94043 ("Google") and the business entity agreeing to these terms ("Customer"). This Agreement is effective as of the date Customer clicks the "I Accept" button below (the "Effective Date"). If you are accepting on behalf of Customer, you represent and warrant that: (i) if you have full legal authority to bind Customer to this Agreement; (ii) you have read and understand this Agreement; and (iii) you agree, on behalf of Customer, to this Agreement. If you do not have the legal authority to bind Customer, please do not click the "I Accept" button below. This Agreement governs Customer's access to and use of the Service.

1. Licenses.

1.1 From Google to Customer. Subject to this Agreement, Google grants to Customer a worldwide, non-sublicensable, non-transferable, non-exclusive, terminable, limited license to (a) use the Service, (b) integrate the Service into any Application and provide the Service, solely as integrated into the Application, to users of the Application and (c) use any Software provided by Google as part of the Service.

1.2 From Customer to Google. By submitting, posting, generating or displaying any Application and/or Customer Data on or through the Service, Customer gives Google a worldwide, non-sublicensable, non-transferable, non-exclusive, terminable, limited license to reproduce, adapt, modify, translate, publish, publicly perform, publicly display and distribute any Application and/or including Customer Data for the sole purpose of enabling Google to provide Customer with the Service in accordance with the Agreement.

Provision of the Service.
2.1 Console. Google will provide the Service to Customer. As part of receiving the Service, Customer will have access to the Admin Console, through which Customer may administer the Service.

2.2 Facilities and Data Transfer. All facilities used to store and process an Application and Customer Data will adhere to reasonable security standards no less protective than the security standards at facilities where Google processes and stores its own information of a similar type. Google has implemented at least industry standard systems and procedures to ensure the security and confidentiality of an Application and Customer Data, protect against anticipated threats or hazards to the security or integrity of an Application and Customer Data, and protect against unauthorized access to or use of an Application and Customer Content. Google may process and store an Application and Customer Data in the United States or any other country in which Google or its agents maintain facilities. By using the Service, Customer consents to this processing and storage of an Application and Customer Data. The parties agree that Google is merely a data processor.

2.3 Data Storage Selection.

   Data Storage. Customer may select via the Service whether the Core App Engine End User Data will be stored permanently, at rest, in either the United States or the European Union, and Google will store it accordingly ("App Engine Data Location Setting"). If no selection is made, Core App Engine End User Data will be stored permanently, at rest, in the United States.

   Transient Storage. Core App Engine End User Data may be stored transiently or cached in any country in which Google or its agents maintain facilities before reaching permanent storage.

   Limitations. No App Engine Data Location Setting will apply to Core App Engine End User Data copied in another location or used with other Google products and services (including any other Google Cloud Platform services). If so, the Core App Engine End User Data will be processed and stored pursuant to Section 2.2 of this Agreement.

2.4 Accounts. Customer must have an Account to use the Service, and is responsible for the information it provides to create the Account, the security of its passwords for the Account, and for any use of its Account. If Customer becomes aware of any unauthorized use of its password or its Account, Customer will notify Google as promptly as possible.

2.5 Privacy Policies. The Service is subject to Google's Privacy Policy. Changes to the Privacy Policy will be made as stated in the applicable policy. In addition, Google is enrolled in the U.S. Department of Commerce Safe Harbor Program and will remain enrolled in this program or another replacement program (or will adopt a compliance solution which achieves compliance with the terms of Article 25 of Directive 95/46/EC) throughout the Term of the Agreement.

2.6 New Applications. Google may make new applications, tools, features or
functionality available from time to time through the Service, the use of which may be contingent upon Customer's agreement to additional terms.

2.7 Modifications.

To the Service. Subject to Section 9.4 (Termination for Convenience), Google may make commercially reasonable Updates to the Service from time to time. If Google makes a material change to the Service, Google will inform Customer, provided that Customer has subscribed with Google to be informed about such change.

To the Agreement. Google may make changes to this Agreement, including pricing from time to time. Unless otherwise noted by Google, material changes to the Agreement will become effective 90 days after they are posted, except if the changes apply to new functionality in which case they will be effective immediately. If Customer does not agree to the revised Agreement, please stop using the Service. Google will post any modification to this Agreement to the Terms URL.

3. Payment Terms.

3.1 Free Quota. The Service is provided to Customer without charge up to the Fee Threshold.

3.2 Online Billing. Google will issue an electronic bill to Customer for all charges accrued above the Fee Threshold. Fees are solely based on Google's measurements of Customer's use of the Service, may include monthly fees, and Google's determination is final. For use above the Fee Threshold, Customer shall be responsible for all Fees up to the amount set in the Account and shall pay all Fees in U.S. Dollars or in such other currency as agreed to in writing by the parties. Customer shall pay all Fees in accordance with the payment terms in the Service FAQ.

3.3 Delinquent Payments. Late payments may bear interest at the rate of 1.5% per month (or the highest rate permitted by law, if less). Google reserves the right to suspend your Account for any late payments.

3.4 Taxes. Customer is responsible for any Taxes, and Customer will pay Google for the Services without any reduction for Taxes. If Google is obligated to collect or pay Taxes, the Taxes will be invoiced to Customer, unless Customer provides Google with a timely and valid tax exemption certificate authorized by the appropriate taxing authority. In some states the sales tax is due on the total purchase price at the time of sale and must be invoiced and collected at the time of the sale. If Customer is required by law to withhold any Taxes from its payments to Google, Customer must provide Google with an official tax receipt or other appropriate documentation to support such withholding payments.

3.5 Invoice Disputes & Refunds. To the fullest extent permitted by law, Customer waives all claims relating to Fees unless claimed within sixty days after
charged (this does not affect any Customer rights with its credit card issuer). Refunds (if any) are at the discretion of Google and will only be in the form of credit for the Service. Nothing in this Agreement obligates Google to extend credit to any party.


4.1 Compliance. Customer is solely responsible for its Applications and Customer Data, and for making sure its Applications or Customer Data comply with the Acceptable Use Policy. Google reserves the right to review the Application or Customer Data to ensure Customer's compliance with the Acceptable Use Policy. Customer is responsible for ensuring all End Users comply with Customer's obligations under the Agreement.

4.2 Privacy. Customer will protect the privacy and legal rights of its End Users under all applicable laws and regulations, which includes a legally adequate privacy notice communicated from Customer. Customer may have the ability to access, monitor, use, or disclose Customer Data submitted by End Users through the Service. Customer will obtain and maintain any required consents from End Users to allow Customer's access, monitoring, use and disclosure of Customer Data. Further, Customer will notify its End Users that any Customer Data provided as part of the Service will be made available to a third party as part of Google providing the Service.

4.3 Restrictions. Customer will not, and will not allow third parties under its control to: (a) copy, modify, create a derivative work of, reverse engineer, decompile, translate, disassemble, or otherwise attempt to extract the source code of the Service or any component thereof (subject to Section 4.4 below); (b) use the Service for High Risk Activities; (c) sublicense, resell, or distribute the Service or any component thereof separate from any integrated Application; (d) use the Service to create, train, or improve (directly or indirectly) a substantially similar product or service, including any other machine translation engine; (e) create multiple Applications or Accounts to simulate or act as a single Application or Account (respectively) or otherwise access the Service in a manner intended to avoid incurring Fees; (f) use the Service to operate or enable any telecommunications service or in connection with any Application that allows End Users to place calls to or to receive calls from any public switched telephone network; or (g) process or store any Customer Data that is subject to the International Traffic in Arms Regulations maintained by the Department of State. Customer acknowledges that the Service is not HIPAA compliant and Customer is solely responsible for any applicable compliance with HIPAA.

4.4 Open Source Components. Open source software licenses for components of the Service released under an open source license constitute separate written agreements. Open source software is listed in the Documentation. To the limited extent the open source software licenses expressly supersede this Agreement, the open source license instead governs Customer's agreement with Google for the
specific included open source components of the Service, or use of the Service (as may be applicable).

4.5 Documentation. Google may provide Documentation for Customer's use of the Service. The Documentation may specify restrictions (e.g. attribution of HTML restrictions) on how the Applications may be built or the Service may be used and Customer agrees to comply with any such restrictions specified.

4.6 DMCA Policy. Google provides information to help copyright holders manage their intellectual property online, but Google cannot determine whether something is being used legally or not without their input. Google responds to notices of alleged copyright infringement and terminates accounts of repeat infringers according to the process set out in the U.S. Digital Millennium Copyright Act. If Customer thinks somebody is violating Customer's or its End Users' copyrights and wants to notify Google, Customer can find information about submitting notices, and Google's policy about responding to notices at http://www.google.com/dmca.html.

4.7 Application and No Multiple Accounts, Bills. Any Application must have material value independent from the Services. Google has no obligation to provide multiple bills or Accounts to Customer under the Agreement.

5. Suspension and Removals.

5.1 Suspension/Removals. If Customer becomes aware that any Application or an End User's use of an Application, or Customer Data violates the Acceptable Use Policy, Customer will immediately suspend the Application, remove the applicable Customer Data, or suspend access to an End User (as may be applicable). If Customer fails to suspend or remove as noted in the prior sentence, Google may specifically request that Customer do so. If Customer fails to comply with Google's request to do so within twenty-four hours, then Google may suspend Google accounts of the applicable End Users, disable the Application, and/or disable the Account (as may be applicable) until such violation is corrected.

5.2 Emergency Security Issues. Despite the foregoing, if there is an Emergency Security Issue, then Google may automatically suspend the offending End User account, Application or the Account. Suspension will be to the minimum extent required, and of the minimum duration, to prevent or terminate the Emergency Security Issue. If Google suspends an End User account or the Application or Account, for any reason, without prior notice to Customer, at Customer's request, Google will provide Customer the reason for the suspension as soon as is reasonably possible.


6.1 Intellectual Property Rights. Except as expressly set forth herein, this Agreement does not grant either party any rights, implied or otherwise, to the other's content or any of the other's intellectual property. As between the parties, Customer owns all Intellectual Property Rights in any Application and Customer Content, and Google owns all Intellectual Property Rights in the
6.2 Brand Features Limitation. If Customer wants to display Google Brand Features in connection with its use of the Service, Customer must obtain written permission from Google through process specified in the Trademark Guidelines. For the sole purpose of providing the Service, Customer permits Google to display any Brand Features that may appear in its Application. Any use of a party's Brand Features will inure to the benefit of the party holding Intellectual Property Rights to those Brand Features. A party may revoke the other party's right to use its Brand Features pursuant to this Agreement with written notice to the other and a reasonable period to stop the use.

7. Technical Support Service

7.1 By Customer. Customer is responsible for technical support of its Application.

7.2 Deprecation Policy.

Google will announce if we intend to discontinue or make backwards incompatible changes to this API or Service. We will use commercially reasonable efforts to continue to operate that Service without these changes until the later of: (i) one year after the announcement or (ii) April 20, 2015, unless (as Google determines in its reasonable good faith judgment):

- required by law or third party relationship (including if there is a change in applicable law or relationship), or
- doing so could create a security risk or substantial economic or material technical burden.

This Deprecation Policy doesn't apply to versions, features, and functionality labeled as "experimental."

8. Confidential Information.

8.1 Obligations. The recipient of the other party's Confidential Information will not disclose the Confidential Information, except to Affiliates, employees, agents, or professional advisors who need to know it and who have agreed in writing (or in the case of professional advisors are otherwise bound) to keep it confidential. The recipient will ensure that those people and entities use the Confidential Information only to exercise rights and fulfill obligations under this Agreement, while using reasonable care to keep it confidential. The recipient may also disclose Confidential Information when required by law after giving reasonable notice to the discloser if allowed by law. The recipient may also disclose Confidential Information to the extent required by applicable Legal Process; provided that the recipient uses commercially reasonable efforts to: (i) promptly notify the other party of such disclosure before disclosing; and (ii) comply with the other party's reasonable requests regarding its efforts to oppose the disclosure. Notwithstanding the foregoing, subsections (i) and (ii)
above will not apply if the recipient determines that complying with (i) and (ii) could: (a) result in a violation of Legal Process; (b) obstruct a governmental investigation; and/or (c) lead to death or serious physical harm to an individual. As between the parties, Customer is responsible for responding to all third party requests concerning its use and its End Users' use of the Services.

9. Term and Termination.

9.1 Agreement Term. The license granted in this Agreement will remain in effect, unless terminated earlier as set forth in this Agreement.

9.2 Termination for Breach. Either party may terminate this Agreement for breach if: (i) the other party is in material breach of the Agreement and fails to cure that breach within thirty days after receipt of written notice; (ii) the other party ceases its business operations or becomes subject to insolvency proceedings and the proceedings are not dismissed within ninety days; or (iii) the other party is in material breach of this Agreement more than two times notwithstanding any cure of such breaches.

9.3 Termination for Inactivity. Google reserves the right to terminate the Service for inactivity, if, for a period exceeding ninety days, Customer (a) has failed to access the Admin Console, (b) an Application has not served any requests, and (c) no electronic bills are being generated.

9.4 Termination for Convenience. Customer may stop using the Service at any time. Customer may terminate this Agreement for convenience at any time on prior written notice and upon termination, must cease use of the Service. Google may terminate this Agreement for its convenience at any time without liability to Customer. Subject to Section 7.2, Google may discontinue the Service or any portion or feature for any reason at any time without liability to Customer.

9.5 Effects of Termination. If the Agreement expires or is terminated, then: (i) the rights granted by one party to the other will immediately cease; (ii) all Fees (including Taxes) owed by Customer to Google are immediately due upon receipt of the final electronic bill; (iii) Customer will delete the Software, any Application and any Customer Data; and (iv) upon request, each party will use commercially reasonable efforts to return or destroy all Confidential Information of the other party.

10. Publicity.

Customer is permitted to state publicly that it is a customer of the Service, consistent with the Trademark Guidelines. Customer agrees that Google may include Customer's name or Brand Features in a list of Google customers, online or promotional materials. Customer also agrees that Google may verbally reference Customer as a customer of the Google products or services that are the subject of this Agreement. This section is subject to the "Brand Features Limitation" section of the Agreement. For clarification, neither party needs to seek approval from the other if the party is repeating a public statement that
11. Representations.

Each party represents that: (a) it has full power and authority to enter into the Agreement; and (b) it will comply with all laws and regulations applicable to its provision, or use, of the Service, as applicable. Google warrants it will provide the Service in accordance with the applicable SLA.

12. Disclaimer.

EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, GOOGLE DOES NOT MAKE ANY OTHER WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND NONINFRINGEMENT.

GOOGLE IS NOT RESPONSIBLE OR LIABLE FOR THE DELETION OF OR FAILURE TO STORE ANY CONTENT AND OTHER COMMUNICATIONS MAINTAINED OR TRANSMITTED THROUGH USE OF THE SERVICE. CUSTOMER IS SOLELY RESPONSIBLE FOR SECURING AND BACKING UP ITS APPLICATION AND CUSTOMER CONTENT. GOOGLE DOES NOT WARRANT THAT THE OPERATION OF THE SOFTWARE OR THE SERVICE WILL BE ERROR-FREE OR UNINTERRUPTED. NEITHER THE SOFTWARE NOR THE SERVICE ARE DESIGNED, MANUFACTURED, OR INTENDED FOR HIGH RISK ACTIVITIES.

13. Limitation of Liability.

13.1 Limitation on Indirect Liability. TO THE MAXIMUM EXTEND PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIERS, WILL BE LIABLE UNDER THIS AGREEMENT FOR LOST REVENUES OR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES, EVEN IF THE PARTY KNEW OR SHOULD HAVE KNOWN THAT SUCH DAMAGES WERE POSSIBLE AND EVEN IF DIRECT DAMAGES DO NOT SATISFY A REMEDY.

13.2 Limitation on Amount of Liability. TO THE MAXIMUM EXTEND PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIER'S, MAY BE HELD LIABLE UNDER THIS AGREEMENT FOR MORE THAN THE AMOUNT PAID BY CUSTOMER TO GOOGLE DURING THE TWELVE MONTHS PRIOR TO THE EVENT GIVING RISE TO LIABILITY.

13.3 Exceptions to Limitations. These limitations of liability do not apply to breaches of confidentiality obligations, violations of a party's Intellectual Property Rights by the other party, or indemnification obligations.


14.1 By Customer. Customer will indemnify, defend, and hold harmless Google from and against all liabilities, damages, and costs (including settlement costs and reasonable attorneys' fees) arising out of a third party claim: (i) regarding any Application or Customer Content; (ii) that Customer Brand Features infringe or misappropriate any patent, copyright, trade secret or trademark of a third party; or (iii) regarding Customer's, or its End Users', use of the Service in
violation of the Acceptable Use Policy.

14.2 By Google. Google will indemnify, defend, and hold harmless Customer from and against all liabilities, damages, and costs (including settlement costs and reasonable attorneys’ fees) arising out of a third party claim that Google's technology used to provide the Service (excluding any open source software) or any Google Brand Feature infringes or misappropriates any patent, copyright, trade secret or trademark of such third party. Notwithstanding the foregoing, in no event shall Google have any obligations or liability under this Section arising from: (i) use of any Service or Google Brand Features in a modified form or in combination with materials not furnished by Google, and (ii) any Customer Content.

14.3 Possible Infringement.

   Repair, Replace, or Modify. If Google reasonably believes the Service infringes a third party's Intellectual Property Rights, then Google will: (a) obtain the right for Customer, at Google's expense, to continue using the Service; (b) provide a non-infringing functionally equivalent replacement; or (c) modify the Service so that it no longer infringes.

   Suspension or Termination. If Google does not believe the foregoing options are commercially reasonable, then Google may suspend or terminate Customer's use of the impacted Service.

14.4 General. As a condition to indemnification for a claim, the party seeking indemnification must promptly notify the other party of the claim in writing and cooperate with the other party in defending the claim. The indemnifying party has full control and authority over the defense, except that: (a) any settlement requiring the party seeking indemnification to admit liability or to pay any money will require that party's prior written consent, such consent not to be unreasonably withheld or delayed; and (b) the other party may join in the defense with its own counsel at its own expense. Notwithstanding the foregoing, if the indemnified party settles without the prior written consent of the indemnifying party, the indemnifying party has no obligation of contribution.

THE INDEMNITIES ABOVE ARE THE ONLY REMEDY UNDER THIS AGREEMENT FOR VIOLATION OF A THIRD PARTY’S INTELLECTUAL PROPERTY RIGHTS.

15. Government Purposes (applicable to United States government customers only).

The Service was developed solely at private expense and is commercial computer software and related documentation within the meaning of the applicable civilian and military Federal acquisition regulations and any supplements thereto. If the user of the Service is an agency, department, employee, or other entity of the United States Government, under FAR 12.212 and DFARS 227.7202, the use, duplication, reproduction, release, modification, disclosure, or transfer of the Service, including technical data or manuals, is governed by the terms and conditions contained in this Agreement, which is Google's standard commercial license agreement.

16.1 Notices. All notices must be in writing and addressed to the other party's legal department and primary point of contact. The email address for notices being sent to Google's Legal Department is legal-notices@google.com. Notice will be treated as given: (a) on receipt as verified by written automated receipt or by electronic log (as applicable).

16.2 Assignment. Neither party may assign any part of this Agreement without the written consent of the other, except to an Affiliate where: (a) the assignee has agreed in writing to be bound by the terms of this Agreement; (b) the assigning party remains liable for obligations under the Agreement if the assignee defaults on them; and (c) the assigning party has notified the other party of the assignment. Any other attempt to assign is void.

16.3 Change of Control. If a party experiences a change of Control (for example, through a stock purchase or sale, merger, or other form of corporate transaction): (a) that party will give written notice to the other party within thirty days after the change of Control; and (b) the other party may immediately terminate this Agreement any time between the change of Control and thirty days after it receives that written notice.

16.4 Force Majeure. Neither party will be liable for failure or delay in performance to the extent caused by circumstances beyond its reasonable control.

16.5 No Agency. This Agreement does not create any agency, partnership or joint venture between the parties.

16.6 No Waiver. Neither party will be treated as having waived any rights by not exercising (or delaying the exercise of) any rights under this Agreement.

16.7 Severability. If any term (or part of a term) of this Agreement is invalid, illegal or unenforceable, the rest of the Agreement will remain in effect.

16.8 No Third-Party Beneficiaries. This Agreement does not confer any benefits on any third party unless it expressly states that it does.

16.9 Equitable Relief. Nothing in this Agreement will limit either party's ability to seek equitable relief.

16.10 Governing Law.

For City, County, and State Government Entities. If Customer is a city, county or state government entity, then the parties agree to remain silent regarding governing law and venue.

For Federal Government Entities. If Customer is a federal government entity then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY THE LAWS OF THE UNITED STATES OF AMERICA, EXCLUDING ITS CONFLICT OF LAWS RULES. SOLELY TO THE EXTENT PERMITTED BY
FEDERAL LAW: (I) THE LAWS OF THE STATE OF CALIFORNIA (EXCLUDING CALIFORNIA'S CONFLICT OF LAWS RULES) WILL APPLY IN THE ABSENCE OF APPLICABLE FEDERAL LAW; AND (II) FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE, THE PARTIES CONSENT TO PERSONAL JURISDICTION IN, AND THE EXCLUSIVE VENUE OF, THE COURTS IN SANTA CLARA COUNTY, CALIFORNIA.

For All Other Entities. If Customer is any entity not set forth in Section 16.10(a) or (b) then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY CALIFORNIA LAW, EXCLUDING THAT STATE'S CONFLICT OF LAWS RULES, AND WILL BE LITIGATED EXCLUSIVELY IN THE FEDERAL OR STATE COURTS OF SANTA CLARA COUNTY, CALIFORNIA, USA; THE PARTIES CONSENT TO PERSONAL JURISDICTION IN THOSE COURTS.

16.11 Amendments. Any amendment must be in writing, signed by both parties, and expressly state that it is amending this Agreement.

16.12 Survival. The following Sections will survive expiration or termination of this Agreement: 6.1 (Intellectual Property Rights), 8 (Confidential Information), 9.5 (Effects of Termination), 13 (Limitation of Liability), 14 (Indemnification) and 16 (Miscellaneous).

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1.1719 vary 1.0.1

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Ty Coon, President of Vice

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1.1722 verror 1.3.6

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Arnaud LE HORS      BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
Internet:        lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
                 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 filesystem 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 "\[\\{fal\|fr\|[aclqrv]\}\(<\|>|\<=\|>=\|==\)\[^,\]\]+" contained
  syn match psfObjTags "\[\[-_+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.\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 end=~"~ keepend

* These regions are defined in attempt to do syntax checking for some
  * of the attributes.

  syn region psfAttTag matchgroup=psfAttrib start="\s*tag\s+" contains=psfObjTag,psfComment end="$" keepend oneline

  syn region psfAttSpec matchgroup=psfAttrib start="\s*[ancestor|applied_patches|applied_to|contents|corequisites|exrequisites|prerequisites|software_spec|supersedes|superseded_by]\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend
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

VIM REFERENCE MANUAL  by Bram Moolenaar

*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
couraged 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 ===

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2) The modified Vim must be distributed in one of the following five ways:
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      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.
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      unmodified, as mentioned at I). If you make additional changes the
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   c) Provide all the changes, including source code, with every copy of
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        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,
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      any later version.
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   command and in the intro screen, such that the user of the modified Vim
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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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==============================================================================
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
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
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
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From e70023e026f0abd820e9702f7a3c745e03c2846d Mon Sep 17 00:00:00 2001
From: "Richard W.M. Jones" <rjones@redhat.com>
Date: Mon, 3 Aug 2015 12:23:05 +0100
Subject: [PATCH 18/27] Update copyright years.

---
virt-what.in  | 2 +-
virt-what.pod | 2 +- 
2 files changed, 2 insertions(+), 2 deletions(-)

diff --git a/virt-what.in b/virt-what.in
index a5ed33e..6daba34 100644
--- a/virt-what.in
+++ b/virt-what.in
@@ -1,6 +1,6 @@
#!/bin/sh -
# @configure_input@
-# Copyright (C) 2008-2011 Red Hat Inc.,
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#
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diff --git a/virt-what.pod b/virt-what.pod
index 0e2e8a5..d936e4a 100644
--- a/virt-what.pod
+++ b/virt-what.pod
@@ -286,7 +286,7 @@ Richard W.M. Jones <rjones@redhat.com>
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2.10.2

1.1735 watch 0.11.0

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------------------------------------------
UglifyJS
https://github.com/mishoo/UglifyJS
------------------------------------------

Note that UglifyJS is shipped with WebKit Web Inspector.

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coffee-script 1.2.0 via npmjs.org
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express 2.5.7 via npmjs.org
https://github.com/visionmedia/express
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connect 1.8.5 via npmjs.org
https://github.com/senchalabs/connect
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formidable 1.0.9 via npmjs.org
https://github.com/felixge/node-formidable

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mime 1.2.5 via npmjs.org
https://github.com/bentomas/node-mime

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mkdirp 0.0.7 via npmjs.org
https://github.com/substack/node-mkdirp

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qs 0.4.2 via npmjs.org
https://github.com/visionmedia/node-querystring
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abbrev 1.0.3 via npmjs.org
https://github.com/isaacs/abbrev-js
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W3C XML Schema defined in the Web Services Description (WSDL)
Version 2.0 Adjuncts specification
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1.1757 wstx 3.2.9 :1.2.jdk6.ep5.el5

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XML APIs 1.0.b2

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1.1767 Xml Compatibility extensions for Jackson 1.9.2
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* QUnit.diff( "the quick brown fox jumped over", "the quick fox jumps over" ) == "the quick <del>brown</del>fox <del>jumped</del><ins>jumps</ins> over"
1.1775 xml2json 0.9.1

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1.1779 xmlhttprequest-ssl 1.5.1

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1.1780 xmlrpc-c 1.16.24:1209.1840.el6

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Funding for the project that created the original Xmlrpc-c was provided in part by the good folks at First Peer, Inc., producers of P2P applications.

Eric Kidd developed the original Xmlrpc-c in 2000 and maintained it up through June 2001.

Bryan Henderson took over as maintainer in October 2004.

Xmlrpc-c contains (and relies on for some server functions) a derivation of the Abyss web server by Moez Mahfoudh.

Xmlrpc-c contains (and relies on) a derivation of the Expat XML parser, written by James Clark.

The base64 code was derived from what Jack Jansen developed for Python.

For more history, including credits for more minor contributions, see the HISTORY file.

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1.1784 xorg-x11-font-utils 7.5 :20.el7

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Stefan Haustein
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1.1799 yeast 0.1.2

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1.1800 yecht 1.0

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """ Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
             except Errors.RepoMDError:
                 continue # No metadata found for this repo

+        self.archlist = self.arch_storage.archlist
+        
+        def get_notices(self, name=None):
+            """ Return all notices. """
+            if name is None:
+                return []

@@ -438,29 +443,32 @@ class UpdateMetadata(object):

@@ -453,3 +457,3 @@ class UpdateMetadata(object):

@ @ -434,16 +438,29 @@ class UpdateMetadata(object):

- name = oldpkgtup[0]
- arch = oldpkgtup[1]
- ret = []
other_arch_list = []
notices = set()
for notice in self.get_notices(name):
    for upkg in notice['pkglist']:
        for pkg in upkg['packages']:
            other_arch = False
            if pkg['name'] != name or pkg['arch'] != arch:
                continue
            if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                other_arch = True
            else:
                continue
            pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                      pkg['version'], pkg['release'])
            if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                continue
            ret.append((pkgtup, notice))
            if other_arch:
                other_arch_list.append((pkgtup, notice))
            else:
                ret.append((pkgtup, notice))
                notices.add(notice)
        for pkgtup, notice in other_arch_list:
            if notice not in notices:
                ret.append((pkgtup, notice))
ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

def safe_iterparse(filename, logger=None):

def __init__(self, elem=None):
self._md = {
    'from' : '',
    'type' : '',
}

if elem:
    self._parse(elem)

    self._repoid = repoid
    self._vlogger = vlogger

    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']). ""
        self._repoid is not None:
        if type(item) is int:
            self._md[item]

    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:
')
        msg += '<<<<<<< %s:%s
' % (_rid(other), data)
        msg += '%r
=======
%r
' % (other._md[data], self._md[data])
        msg += '>>>>>>> %s:%s' % (_rid(self), data)
        self._vlogger.log(logginglevels.DEBUG_3, msg)

    if not other or not hasattr(other, '_md'):
        return False

    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

if data == 'status': # FIXME: See below...
    continue
    if self._md[data] != other._md[data]:
        _log_failure(data)
        return False
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))
                        have_dup = True
                        if self._vlogger:
                            self._vlogger.warn("%s", msg)

1.1802 yum-metadata-parser 1.1.4 :10.el7
1.1802.1 Available under license :
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1.1803 yum-utils 1.1.31 :42.el7
1.1803.1 Available under license :
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