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   1.443.1 Available under license
1.444 tcsh 6.18.01 :15.el7
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1.3 aic94xx-firmware 30 :6.el7

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1.9 attr 2.4.46 :13.el7

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1.10 audit 2.8.1 :3.el7_5.1

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
From friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

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

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

It should serve as a pretty good example of how to get carried away. :-)
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

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Hi.

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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1.17 bash-completion 2.1 :6.el7

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* configure.ac, Makefile.am: The original versions were derived from the
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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
3a0982da30b228d796df35f98d787c5cfff2bb5b6.

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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<one line to give the program's name and a brief idea of what it does.>
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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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1.22 blktrace 1.0.5 :8.el7

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1.23 boost 1.53.0 :27.el7

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Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
 : mpl::identity<T>
 #if defined(__MWERKS__)
   , aux::print_base
-#endif
+#endif
+{ 
 #if defined(BOOST_MSVC)
   enum { n = sizeof(T) + -1 }; 
 #elif defined(__MWERKS__)
-    void f(int);
-    enum 
-      { n =
-    +# elif defined(__EDG_VERSION__) 
-      aux::dependent_unsigned<T>::value > -1 
-    +# else 
-      sizeof(T) > -1 
-    +# endif
-      }
-    
-  if 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)
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Andrei Alexandrescu (andreawalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
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)
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Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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

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

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

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

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>\n"
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies: <BR>";
else
    os << "The following Boost modules were checked: <BR>";

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

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

//
// 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>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>"
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>"
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()
            << " files <a href="/" make_link_target(licenses.first[i->first].license_name) << "><see details</a>";
        os << "</P><BLOCKQUOTE>";
        ++i;
    }
}
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;

os << "<h2>Licence Details</h2>

while (i != j)
{
  // title:
  os << "<H3><A name=" << make_link_target(licenses.first[i->first].license_name) << ">" << licenses.first[i->first].license_name << "</H3>";
  // license text:
  os << licenses.first[i->first].license_text;
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
    while(x != y)
    {
      os << *x << "<BR>";
      ++x;
    }
    os << "</P>";
  }
  else
  {
    os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).";
  }
  os << "This license applies to the following " << i->second.files.size() << " files (list omitted for brevity).";
  ++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>
"<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>
"<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>
  "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:<p><BLOCKQUOTE><p>
  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) << "\n</tt><br>
    <pre>
    " << i->second.first << "</pre></td>\n    <td><pre>
    " << i->second.second << "</pre></td>\n    </tr>
</table>
";;
++i;
++file_num;
}

// Output list of files that could be moved over to the Boost Software License
//
os << "\n";<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
<P>The following "<< m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:";</P>

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>";;
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";
<P>The following "<< m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:";</P>

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>";;
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";
<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</P>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
std::ostream_iterator<std::string>(os, "\n")

os << "</p></BLOCKQUOTE>"

// output a table of copyright information:

// os << "<H2>"a name="copyright">Copyright Holder Information</H2><table border="1" "\n"
std::map<std::string, std::set<fs::path, path_less>> const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td" << ad->first << "</td><td";
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
    os << "</td></tr>\n"
    ++ad;
}
    os << "</table>\n";
}

// output file dependency information:

// os << "<H2>a name="depend">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";

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

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ",");
    std::runtime_error e(msg);
    boost::throw_exception(e);
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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 (dossersrc.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Petersen (jep@mitame.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchnmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brentjade.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@grouchocse.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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![C++ Boost](../../../boost.png)

<!--hr-->

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<para>Jeff Garland</para>

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

Purely as an implementation detail, this means that `__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`).
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 `<a href="../../../libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>` and `false_type` inherits from `<a href="../../../libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>`, and `integral_constant<T, v>` inherits from `<a href="../../../libs/mpl/doc/refmanual/integral-c.html" target="_top">integral_c</a>` (provided `T` is not `<span class="keyword">bool</span>`).

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359
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<class C, typename T1, typename T2>
struct if_c
{
    typedef T1 type;
};

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

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

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

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

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

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

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

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

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

template <> struct unvoid<void> { struct type { }; };

template <> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

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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 <cstdlib>

namespace boost {


namespace interprocess {
namespace ipcdetail {

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

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

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }
    static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

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

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

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

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

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};
/identity is an extension: it is not part of the standard.

template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

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

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

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

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

#endif  //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
```cpp
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
    namespace intrusive {
        namespace detail {

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

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

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

            typedef true_  true_type;
            typedef false_ false_type;

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

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

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

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

            template<class F, class Param>
            struct apply
            {
                typedef typename F::template apply<Param>::type type;
            };

            template <class T, class U>
            class is_convertible
            {
```
typedef char true_t;
class false_t { char dummy[2]; };
static true_t dispatch(U);
static false_t dispatch(...);
static const T &trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

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

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

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

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_<C,F1,F2>::type
{};

template<
typedef 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;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#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;  };

#endif
#ifndef _MANAGED

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

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

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

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

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

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

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

#ifndef _MANAGED

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

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

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;  }

#endif

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

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

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

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

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

#ifndef _MANAGED

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

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

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

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

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };
/boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

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

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

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

    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;
};

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

1.24 bridge-utils 1.5 :9.el7
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.27 ca-certificates 2018.2.22 :70.0.el7_5

1.28 cairo 1.14.8 :2.el7

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## Special Recognition ##

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

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# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

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

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

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<one line to give the program’s name and a brief idea of what it does.>
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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Public License instead of this License. But first, please read

1.44 cracklib 2.9.0 :11.el7
1.44.1 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=
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  
>=20

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

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

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=20  
eir=20  
aplications are also GPL-2 which imo is just wrong. it isnt the place of =20  
a=20  
library to dictact to application writes what license they should be using.=20  
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.
> > >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isn't the
> > place of a
> > library to dictact to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.
-mike

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

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.
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...
> 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] (hel0=[192.168.1.3])
by rutherford.zen.co.uk with esmt (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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

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

That's all there is to it!
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 Dittbener
<jandd@debian.org>.

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

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittbener <jan@dittbener.info>

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

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CrackLib was originally licensed with a variant of the Artistic
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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.=20

-- Nathan
=20

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

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

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictate 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
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
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> > > 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
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> > >=20
> > > unlike the old license, GPL-2 prevents people from using cracklib
> > > unless their
> > > applications are also GPL-2 which imo is just wrong. it isnt the
> > > place of a
> > > library to dictact to application writes what license they should
> > > be using.
> > > thus LGPL-2.1 enters to fill this void.
> > > -mike

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

I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

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

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

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

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

Happy now? :-)

-a

1.45 crda 3.13_2016.02.08 :1.el7
1.45.1 Available under license :

source code can found at: http://vault.centos.org/7.3.1611/os/Source/SPackages/crda-3.13_2016.02.08-1.el7.src.rpm
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The crda packages was downloaded from <http://wireless.kernel.org/download/crda/>

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1.46 cronie 1.4.11 :19.el7

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 */

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1.48 cryptsetup 1.7.4 :4.el7

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</pre>

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

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

<pre>
Gnomovision version 69, Copyright (C) <VAR>year</VAR>  <VAR>name of author</VAR>
</pre>
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type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
</PRE>

The hypothetical commands `<SAMP>`show w'</SAMP> and `<SAMP>`show c'</SAMP> should show
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commands you use may be called something other than `<SAMP>`show w'</SAMP> and
<SAMP>`show c'</SAMP>; they could even be mouse-clicks or menu items--whatever
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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
</PRE>

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Version 2, June 1991

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numbered 2 because it goes with version 2 of the ordinary GPL.]
</PRE>

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under the terms of Sections 1 and 2 above provided that you accompany
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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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Library, but is designed to work with the Library by being compiled or
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creates an executable that is a derivative of the Library (because it
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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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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3. If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

</OL>

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<P>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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<OL TYPE="a">

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<P>
<LI>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.

</OL>

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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:

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

That's all there is to it!

1.50 curl 7.29.0 :46.el7

1.50.1 Available under license:

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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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libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

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

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS  http://www.gnutls.org/

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

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

NSS http://www.mozilla.org/projects/security/pki/nss/

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axTLS http://axtls.sourceforge.net/

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

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

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

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

(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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GNU GSS http://www.gnu.org/software/gss/

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curl to also link and use any Original BSD licensed libraries!

fbopenssl

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

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public
License [3]. LGPL is a variation of GPL with slightly less aggressive
"copyleft". This license requires more requirements to be met when
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you distribute a binary that includes this library, you must also
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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.

how to write such an exception to the GPL
[3] = LGPL - GNU Lesser General Public License:
   http://www.gnu.org/licenses/lgpl.html
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   http://www.mozilla.org/MPL/

1.51 cyrus-sasl 2.1.26 :23.el7

1.51.1 Available under license :

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1.56 device-mapper-multipath 0.4.9
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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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1.57 device-mapper-persistent-data 0.7.3
:3.el7

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1.58 dhcp 4.2.5 :68.el7.centos.1

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clarify this fact.

* 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
3a0982da308228d796df35f98d787c5c8d2b5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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/*

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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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# 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 $(my_dir) | sed -e ';lib/;;'"/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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Gadi Oxman, August 1995

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---

This file contains utf-8 non-ASCII characters, and so cannot be loaded into Emacs 22 or earlier.

(defconst copyright-current-gpl-version "3")
(defconst copyright-update t)
(defconst copyright-current-year)

---

The function `copyright-update' sets this to nil after updating a buffer.

---

String representing the current version of the GPL or nil.
(defconst copyright-current-gpl-version "3")

---

The function `copyright-update' sets this to nil after updating a buffer.

---

String representing the current year.
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point
copyright-re-search "the Free Software Foundation[,;\n].*either version \\([0-9]+\\)\\(?: of the License\\)?, or[
\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302\"\207" [save-match-datainternal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig))
switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s? " match-string-no-properties replacematch nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$ . 6067)
"*P\nd"])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b
\210'\203\320
\324=\203\235\312\211\202\320\203\255\fTU\203\255`\202\320\n\203\314\203\314\nV\203\314b\210
|\210\334\335\"c\210%b\210\f`\f%\"\2025\"\203'\203\376\n\203\376\203\376\nV\203\376b\210
|\210\334\335\"c\210\"b\210\336\312x\210\214$`}\210\337ed\"\210)#\312\211\223\210%\312\211\223.\207\340\34
1!\207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-yearranges] 12 (#$ . 7556) nil])
(put 'copyright 'no-self-insert t)
#@558 Insert a copyright by $ORGANIZATION notice at cursor.
This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped
around the region text.
A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #[(&optional str arg) "\302\303#\207" [str arg skeleton-proxy-new ("Company: " comment-start
"Copyright (C) " `(format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-toolarge-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")) comment-end
n)] 4 (#$ . 8883) "*P\nP"])
#@122 Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead.
(defalias 'copyright-update-directory #[(directory match &optional fix) "\306\307
\310$\310\211\205E@\311\n!\204=\312\313\n\"\210\314\310\315\n!\210*\307\2032\316 \210\2025\317 \210)\320
\210\321p!\210A\211\204
\310*\207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil filedirectory-p message "Updating file `%s'" :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer
inhibit-read-only fix] 6 (#$ . 9815) "DDirectory: \nMFilenames matching (regexp): "])

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(provide 'copyright)
;;; copyright.el --- update the copyright notice in current buffer

;;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;;; Inc.

;;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;;; Keywords: maint, tools

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;;; Commentary:

;;; Allows updating the copyright year and above mentioned GPL version manually
;;; or when saving a file.
;;; Do (add-hook 'before-save-hook 'copyright-update), or use
;;; M-x customize-variable RET before-save-hook RET.

;;; Code:

(defun copyright-limit
  "Don't try to update copyright beyond this position unless interactive.
   A value of nil means to search whole buffer."
  :group 'copyright
  :type (choice (integer :tag "Limit")
               (const :tag "No limit")))

(defun copyright-at-end-flag
  "Non-nil means to search backwards from the end of the buffer for copyright. This is useful for ChangeLogs."
  :group 'copyright)
(defcustom copyright-regexp
"\(\|@copyright{}\|\[Cc\]opyright\s *?:\s *\(?:(C)\)?\|\[Cc\]opyright\s *?:\s *\)\s *\(?:[^0-9\n]*\s *\)?\(\[1-9]\(\[-0-9, ';/*%#
\t\]\|\s<\|\s>\)*[0-9]+\)"
"What your copyright notice looks like. The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

(defcustom copyright-names-regexp ""
"Regexp matching the names which correspond to the user. Only copyright lines where the name matches this regexp will be updated. This allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work."
:group 'copyright
:type 'regexp)

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defcustom copyright-years-regexp
"\(\s *\)\(\[1-9]\(\[-0-9, ';/*%#
\t\]\|\s<\|\s>\)*[0-9]+\)"
"Match additional copyright notice years. The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defcustom copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range. For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008. If you use ranges, you should add an explanatory note in a README file. The function `copyright-fix-years' respects this variable."
:group 'copyright
:type 'boolean
:version "24.1")

;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)
(defcustom copyright-query 'function
"If non-nil, ask user before changing copyright. When this is 'function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
"String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
(and copyright-limit
(if copyright-at-end-flag
(- (point) copyright-limit)
(+ (point) copyright-limit)))))

(defun copyright-re-search (regexp &optional bound noerror count)
"Re-search forward or backward depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
(re-search-backward regexp bound noerror count)
(re-search-forward regexp bound noerror count))

(defun copyright-start-point ()
"Return point-min or point-max, depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
(point-max)
(point-min)))

(defun copyright-offset-too-large-p ()
"Return non-nil if point is too far from the edge of the buffer."
(when copyright-limit
(if copyright-at-end-flag
(< (point) (- (point-max) copyright-limit))
(> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
"Return non-nil if a copyright header suitable for updating is found."
The header must match `copyright-regexp' and `copyright-names-regexp', if set. This function sets the match-data that `copyright-update-year' uses.”

(widen)
(goto-char (copyright-start-point))
(condition-case err
    ;; (1) Need the extra \( \) around copyright-regexp because we
goto (match-end 1) below. See note (2) below.
    (copyright-re-search (concat \("(\" copyright-regexp
"\)\(\[ \t\]*
\).*\(?:
copyright-names-regexp \)\)"
    (copyright-limit)
t)
    ;; In case the regexp is rejected. This is useful because
    ;; copyright-update is typically called from before-save-hook where
    ;; such an error is very inconvenient for the user.
    (error (message "Can't update copyright: %s" err) nil)))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments, skips to the end of all the years."
  (while (save-excursion
    (and (eq (following-char) ?),)
    (progn (forward-char 1) t)
    (progn (skip-chars-forward " \") (eolp))
    (comment-start-skip)
    (save-match-data
      (forward-line 1)
      (and (looking-at comment-start-skip)
        (goto-char (match-end 0)))))
    (looking-at-p copyright-years-regexp))
  (forward-line 1)
  (re-search-forward comment-regexp)
  ;; (2) Need the extra \( \) so that the years are subexp 3, as
  ;; they are at note (1) above.
  (re-search-forward (format "\((%s)\)" copyright-years-regexp)))))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
    (substring copyright-current-year -2))
    if (or noquery
      (save-window-excursion
        (switch-to-buffer (current-buffer))
        ;; Fixes some point-moving oddness (bug#2209).
(save-excursion
  (y-or-n-p (if replace
      (concat "Replace copyright year(s) by "
        copyright-current-year "? ")
      (concat "Add " copyright-current-year
        " to copyright? ")))))

(if replace
  (replace-match copyright-current-year t t nil 3)
(let ((size (save-excursion (skip-chars-backward "0-9"))))
  (if (and (eq (% (- (string-to-number copyright-current-year)
                 (string-to-number (buffer-substring
                                     (+ (point) size)
                                     (point))))
                 100)
            (or (eq (char-after (+ (point) size -1)) ?-)
                (eq (char-after (+ (point) size -2)) ?-)))
    ;; This is a range so just replace the end part.
    (delete-char size)
    ;; Insert a comma with the preferred number of spaces.
    (insert (save-excursion
            (if (re-search-backward "[0-9]\([,\s]*[0-9]\)"
              (match-string 1)
              ", ")))
    ;; If people use the '91 '92 '93 scheme, do that as well.
    (if (eq (char-after (+ (point) size -3)) ?)
      (insert ?))
    ;; Finally insert the new year.
    (insert (substring copyright-current-year size)))))))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them.  If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*Pnd")
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
                  (and (eq copyright-query 'function) interactivep)))
      (save-excursion
        ;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
  (copyright-update-year arg noquery)
  (goto-char (copyright-start-point))
  (and copyright-current-gpl-version
   ;; Match the GPL version comment in .el files.
   ;; This is sensitive to line-breaks. :(
   (copyright-re-search
    "the Free Software Foundation\[,:\n    \([0-9]*\) of the License\], or\[,:\n    any later version"
    copyright-limit) t)
   ;; Don't update if the file is already using a more recent
   ;; version than the "current" one.
   (< (string-to-number (match-string 1))
    (string-to-number copyright-current-gpl-version))
  (or noquery
   (save-match-data
    (goto-char (match-end 1))
    (save-window-excursion
     (switch-to-buffer (current-buffer))
     (y-or-n-p
      (format "Replace GPL version %s with version %s? "
        (match-string-no-properties 1)
        copyright-current-gpl-version))))
   (set (make-local-variable 'copyright-update) nil)))

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;###autoload
(defun copyright-fix-years ()
"Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
    (p (make-marker))
    ;; Not line-beg-pos, so we don't mess up leading whitespace.
    (copystart (match-beginning 0))
    e last sep year prev-year first-year range-start range-end)
  ;; In case years are continued over multiple, commented lines.
  (goto-char (match-end 1)))

;;; If a write-file-hook returns non-nil, the file is presumed to be written.
nil)

;;; If a write-file-hook returns non-nil, the file is presumed to be written.
nil)

;;; If a write-file-hook returns non-nil, the file is presumed to be written.
nil)
(setq e (copy-marker (1+ (match-end 3))))
(goto-char s)
(while (re-search-forward "[0-9]++" e t)
  (set-marker p (point))
  (goto-char (match-beginning 0))
  (setq year (string-to-number (match-string 0)))
  (and (setq sep (char-before))
       (/= (char-syntax sep) ?s)
       (/= sep ?-)
       (insert " ")
  (when (< year 100)
    (insert (if (>= year 50) "19" "20")))
  (setq year (+ year (if (>= year 50) 1900 2000))))
(goto-char p)
(when copyright-year-ranges
  ;; If the previous thing was a range, don't try to tack more on.
  ;; TODO should merge into existing range if possible.
  (if (eq sep ?-)
    (setq prev-year nil
          year nil)
    (if (and prev-year (= year (1+ prev-year))
        (setq range-end (point)))
      (when (and copyright-year-ranges
                    first-year prev-year
                    (> prev-year first-year))
        (goto-char range-end)
        (delete-region range-start range-end)
        (insert (format "-%d" prev-year))
        (setq first-year year
              range-start (point)))))
  (setq prev-year year
        last p))
(when last
  (when (and copyright-year-ranges
                first-year prev-year
                (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year)))
  (goto-char last)
  ;; Don't mess up whitespace after the years.
  (skip-chars-backward "\t")
  (save-restriction
   (narrow-to-region copystart (point))
   ;; This is clearly wrong, eg what about comment markers?
   ;; (let ((fill-prefix " "))
;;; TODO do not break copyright owner over lines.
(fill-region (point-min) (point-max)))

(set-marker e nil)
(set-marker p nil))

;;; Simply reformattinw the years is not copyrightable, so it does
;;; not seem right to call this. Also it messes with ranges.
;;; (copyright-update nil t))
(message "No copyright message"))

;;;###autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "

comment-start
"Copyright (C) " `(format-time-string "%Y") " by "
(or (getenv "ORGANIZATION")
str)
'(if (copyright-offset-too-large-p)
    (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
    comment-end 
)

;;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
"Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: 
MFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
    (unless (file-directory-p file)
        (message "Updating file `%s'" file)
        ;; FIXME we should not use find-file+save+kill.
        (let ((enable-local-variables :safe)
            (enable-local-eval nil))
            (find-file file))
        (let ((inhibit-read-only t))
            (if fix
                (copyright-fix-years)
                (copyright-update)))
            (save-buffer)
            (kill-buffer (current-buffer))))

(provide 'copyright)

;;; For the copyright sign:
;;; Local Variables:
;;; coding: utf-8
;;; End:
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@item
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Also add information on how to contact you by electronic and paper mail.

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

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<h3 align="center"><a name="Exhibit1">EXHIBIT 1</a></h3>

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NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.
Every non-trivial file distributed through the Emacs repository should be
self-explanatory in terms of copyright and license. This includes
files that are not distributed in Emacs releases (for example, the
admin/ directory), because the whole Emacs repository is publicly
available.

The definition of triviality is a little vague, but a rule of thumb is
that any file with less than 15 lines of actual content is trivial. If
a file is auto-generated (eg ldefs-boot.el) from another one in the
repository, then it does not really matter about adding a copyright
statement to the generated file.

Legal advice says that we could, if we wished, put a license notice
even in trivial files, because copyright law in general looks at the
overall work as a whole. It is not _necessary _to do so, and rms
prefers that we do not. This means one needs to take care that trivial
files do not grow and become non-trivial without having a license
added. NB consequently, if you add a lot of text to a small file,
consider whether your changes have made the file worthy of a copyright
notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial
file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see
file "years" in this directory). The PDF versions of refcards etc
should display copyright notices (an exception to the rule about
"generated" files), but these can just display the latest year. The
full list of years should be kept in comments in the source file. If
these are distributed in the repository, check in a regenerated
version when the tex files are updated.

Copyright changes should be propagated to any associated repositories
(eg Gnus, MH-E), but I think in every case this happens automatically
(?).

All README (and other such text files) that are non-trivial should
contain copyright statements and GPL license notices, exactly as .el
files do (see e.g. README in the top-level directory). Before 2007,
we used a simple, short statement permitting copying and modification
provided legal notices were retained. In Feb 2007 we switched to the
standard GPL text, on legal advice. Some older text files in etc/
should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded
in a README file in each directory with images. (Legal advice says
that we need not add notices to each image file individually, if they allow for that. It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years."

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el # emacs-copyright
lib-src/ebrowse.c # version
lib-src/etags.c # print_version
lib-src/rcs2log # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

etc/refcards/*.tex
also update the \def\year macro for the latest year.

etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blander disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

eetc/letter.pbm,letter.xpm
- trivial, no notice needed.

eetc/FTP, ORDERS
- trivial (at time of writing), no license needed

eetc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

eetc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

eetc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QJ-b5.tit, QJ.tit,
Open Source Used In Cisco Prime Network Registrar 10.0

SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that
file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, then to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags
post to it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the
4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the
University of California and a revised BSD license. The terms of
this require that the full license details be available in binary
distributions - hence the file etc/ETAGS.README. The fact that the
--version output just says "Copyright <year> FSF" is apparently OK
from a legal point of view.

lisp/cedet/semantic/imenu.el
  in which Eric Ludlam established that the remaining contributions
  from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe
  (2007/1) there is no problem with our use of the name "tetris" or
  the concept.
  rms: "My understanding is that game rules as such are not copyrightable."
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/

rms (2007/02/17): "lwlib is not assigned to the FSF; we don’t consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib.”

NB don’t change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as
lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*%/doclicense.texi
  - leave the copyright alone in this imported file.

doc/*.texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately.faq.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: "[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie.
Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of
msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"): 

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:
<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>
To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.
Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:
** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

e tc/e/eterm-color.ti
src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

> The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[Note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

> For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

> Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before 2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:
  aix4-1.h hpux10.h irix6-5.h
  sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of system)

*** These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just `bzr remove' a file for legal reasons, or is something more drastic needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).
  rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
  - Restore if find legal info. emacs21.ico is not due to Davenport.
  Geoff Voelker checked but could not find a record of where it came from.

etc/images
  Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.
etc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)

rms: "We can leave the TUTORIAL translations alone until their
maintainers update them."

Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html

Only a few sentences around the license notice need changing from
previous version.

Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg
those included from Gnulib). These are all copyright FSF and (at time
of writing) GPL >= 2. rms says may as well leave the licenses of these
alone (may import them from Gnulib again). These are:

Gnulib:
build-aux/compile
build-aux/config.guess
build-aux/config.sub
build-aux/depcomp
build-aux/missing
build-aux/move-if-change
build-aux/snippet/_Noreturn.h
build-aux/snippet/argnonnull.h
build-aux/snippet/c++defs.h
build-aux/snippet/warn-on-use.h
doc/man/texinfo.tex
lib/*.[ch]
lib/gnulib.mk
src/gmalloc.c
src/termcap.c
src/tparam.c

Note _not_ included in the above are src/regex.{c,h} (rms: "That
forked version is only in Emacs, so definitely relicense that.")
oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

  leim/MISC-DIC/CTLau-b5.html  >= v2
  leim/MISC-DIC/CTLau.html     >= v2
  (above included in lisp/international/titdic-cnv.el)
  leim/MISC-DIC/pinyin.map     >= v1
  leim/MISC-DIC/ziranma.cin    >= v1
  leim/SKK-DIC/SKK-JISYO.L     >= v2
  leim/SKK-DIC/README          >= v2
  leim/ja-dic/ja-dic.el        >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

  etc/images/gnus/README
  etc/images/mail/README
  etc/images/README
  nt/icons/README

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You should have received a copy of the GNU General Public License
Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
************

The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers' profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free"
How Owners Justify Their Power

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.
The Argument against Having Owners
**********************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use. In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use
of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road—but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software

Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work
Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs

The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.
With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

**Damaging Social Cohesion**

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users
will not be allowed to use their work. This leads to an attitude of
cynicism or denial. A programmer may describe enthusiastically the
work that he finds technically exciting; then when asked, "Will I be
permitted to use it?", his face falls, and he admits the answer is no.
To avoid feeling discouraged, he either ignores this fact most of the
time or adopts a cynical stance designed to minimize the importance of
it.

Since the age of Reagan, the greatest scarcity in the United States
is not technical innovation, but rather the willingness to work together
for the public good. It makes no sense to encourage the former at the
expense of the latter.

Obstructing Custom Adaptation of Programs
==========================================

The second level of material harm is the inability to adapt programs.
The ease of modification of software is one of its great advantages over
older technology. But most commercially available software isn't
available for modification, even after you buy it. It's available for
you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose
meaning is obscure. No one, not even a good programmer, can easily
change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which
is written in a programming language such as Fortran or C. It uses
names to designate the data being used and the parts of the program, and
it represents operations with symbols such as `+` for addition and `-` for
subtraction. It is designed to help programmers read and change
programs. Here is an example; a program to calculate the distance
between two points in a plane:

    float
    distance (p0, p1)
    struct point p0, p1;
    {
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
    }

Here is the same program in executable form, on the computer I
normally use:

    1314258944 -232267772 -231844864 1634862
    1411907592 -231844736 2159150 1420296208
Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance.
It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development

The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field--you can only stand on the shoulders of the other people *in your own company*. 
The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
============================================

I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free
=======================

I have shown how ownership of a program--the power to restrict changing or copying it--is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software
********************************
If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
==================

There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a
fortune. A mere living is easier to raise.

Funding Free Software

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortia shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying
tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?
================================

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?
******************************

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If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.
Constructive competition is enough competition to motivate people to
great efforts. A number of people are competing to be the first to have
visited all the countries on Earth; some even spend fortunes trying to
do this. But they do not bribe ship captains to strand their rivals on
desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to
impede each other instead of advancing themselves--when "Let the best
person win" gives way to "Let me win, best or not." Proprietary
software is harmful, not because it is a form of competition, but
because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when
two grocery stores compete, their entire effort is to improve their own
operations, not to sabotage the rival. But this does not demonstrate a
special commitment to business ethics; rather, there is little scope for
combat in this line of business short of physical violence. Not all
areas of business share this characteristic. Withholding information
that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to
combat the competition. Some forms of combat have been made banned with
anti-trust laws, truth in advertising laws, and so on, but rather than
generalizing this to a principled rejection of combat in general,
executives invent other forms of combat which are not specifically
prohibited. Society's resources are squandered on the economic
equivalent of factional civil war.

"Why Don't You Move to Russia?"

In the United States, any advocate of other than the most extreme
form of laissez-faire selfishness has often heard this accusation. For
example, it is leveled against the supporters of a national health care
system, such as is found in all the other industrialized nations of the
free world. It is leveled against the advocates of public support for
the arts, also universal in advanced nations. The idea that citizens
have any obligation to the public good is identified in America with
Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of
central control where all activity was regimented, supposedly for the
common good, but actually for the sake of the members of the Communist
party. And where copying equipment was closely guarded to prevent
illegal copying.

The American system of intellectual property exercises central
control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises
************************

I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in 'Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme
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Court. (At one time, they both condoned slavery.) So their positions
do not disprove the owner supremacy premise. But I hope that the
awareness that this is a radical right-wing assumption rather than a
traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor;
but each time we reward someone for obstructionism, or admire them for
the wealth they have gained in this way, we are sending the opposite
message.

Software hoarding is one form of our general willingness to disregard
the welfare of society for personal gain. We can trace this disregard
from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from
failing banks to failing schools. We can measure it with the size of
the homeless population and the prison population. The antisocial
spirit feeds on itself, because the more we see that other people will
not help us, the more it seems futile to help them. Thus society decays
into a jungle.

If we don't want to live in a jungle, we must change our attitudes.
We must start sending the message that a good citizen is one who
cooperates when appropriate, not one who is successful at taking from
others. I hope that the free software movement will contribute to
this: at least in one area, we will replace the jungle with a more
efficient system which encourages and runs on voluntary cooperation.

--------- Footnotes ---------

(1) The word "free" in "free software" refers to freedom, not to
price; the price paid for a copy of a free program may be zero, or
small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter
this conclusion. If we wish to make driving more expensive to
discourage driving in general, it is disadvantageous to do this using
toll booths, which contribute to both pollution and congestion. A tax
on gasoline is much better. Likewise, a desire to enhance safety by
limiting maximum speed is not relevant; a free access road enhances the
average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful
thing that should not be available at all, like the Lotus Marketplace
database of personal information, which was withdrawn from sale due to
public disapproval. Most of what I say does not apply to this case,
but it makes little sense to argue for having an owner on the grounds
that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

1.71 ethtool 4.8 :7.el7

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

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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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.

   The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.
The Corresponding Source for a work in source code form is that same work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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

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

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

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

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

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

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

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HISTORY -

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

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

Some other contributors:

More recent contributors are mentioned in the modification history in
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 (dossier@src.dec.com) and Regis Criddig (Regis.Criddig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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LLVM Team

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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 says 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\"\"\", (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)),\nassemble_name ((FILE), (NAME)),\nfprintf ((FILE), ",%u\n", (int)(ROUNDED))))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs (".lcomm ", (FILE)),\nassemble_name ((FILE), (NAME)),\nfprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\nif ((LOG)!=0) fprintf ((FILE), 	.align %d\n", (LOG))

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

#define ASM GENERATE INTERNAL LABEL(BUF,PREFIX,NUMBER)\nsprintf ((BUF), 	*%s%ld", (PREFIX), (long)(NUMBER))

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

#define USER_LABEL_PREFIX "_

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

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
c man end
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@smallexample
@var{one line to give the library's name and an idea of what it does.}
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@end smallexample

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@smallexample
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@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
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

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

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0
def report (self, filename, string):
    if filename:
        string = filename + ' ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

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

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

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

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'lt-sugar.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldists',
            'move-if-change',
            'shlibpath.m4',
        ''])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'(\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(self
            # 1: 'Copyright (C)', etc.
            '([Cc]opyright' +
            '[Cc]opyrights+\([Cc]\)' +
            '[Cc]opyright%\s' +
            '[Cc]opyright&copy;' +
            '[Cc]opyright+@copyright\{\}' +
            '@set\s+copyright\[w-]+\]' +
            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\w*\?\s*\+ \s+\w+ . ,\s*\[\w-\]+\]
            # 3: 'by ', if used
            '#3: by\s+', if used
            '('by\s+)\n
            # 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 + '(?\As'? + 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

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
' % filename)
class CmdLine:

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

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

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

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

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

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

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)
def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
            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')
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('^(// Copyright Jeremy Siek)')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
def __init__(self, errors):
    Copyright.__init__(self, errors)

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

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks:')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto')

class GCCCmdLine(CmdLine):
def __init__(self):
    CmdLine.__init__(self, GCCCopyright)

    self.add_dir('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir('fixincludes')
    self.add_dir('gcc', GCCFilter())
    self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir('gnattools')
    self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libibity',
    'libitm',
    '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) {
        }

    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>\n\ntags[i].text().length() > 0); \n        }
        result.append("</dl>");
        return result.toString();
    }
    else {
        return null;
    }
}
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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 {
/**
 * @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 tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 */
/**
 * @param perm the Permission to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

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

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

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

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

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

* @return a new <code>PermissionCollection</code>*

```java
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>*

```java
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();
}
```
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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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Directory native/fdlimb

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* m4/ax_func_which_gethostbyname_r.m4

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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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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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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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That's all there is to it!

1.89 gdb 7.6.1 :110.el7

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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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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

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

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

#!/usr/bin/env python

# Copyright (C) 2011-2013 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

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

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

import datetime
import os
import os.path
import subprocess

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

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

return result

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

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

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

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

    for line in update_out:
        if line.endswith('w'):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

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

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)
    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
REMINIDER: The following files must be updated by hand."
"033[0m"
for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
    print " ", filename

############################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

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

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

# The list of files to update by hand.
BY_HAND = ( # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = ( #
    "gdb/doc/gdb.texinfo",
"gdb/doc/refcard.tex",
"gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exec_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armsos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armsos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopt.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armor.h",
    "sim/arm/armorinit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.h",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emucl_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emucl_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_idc.e", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emucl_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emucl_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
    "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c"
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gem-icache.h", "sim/ppc/gem-model.h", "sim/ppc/id-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gem-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gem-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gem-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw htab.c", "sim/ppc/ff.h", "sim/ppc/id-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
    FS="\n";
    print "/* ==> Do not modify this file!!  " \n     "*- buffer-read-only: t -* vi" \n      ";
    print "It is created automatically by copying.awk.";
    print " Modify copying.awk instead. <=* */";
    print ""
    print "#include \ndefs.h"
    print "#include \ncommand.h"
    print "#include \ngdbcmd.h"
    print ""
    print "static void show_copying_command (char *, int);"
    print ""
    print "static void show_warranty_command (char *, int);"
    print ""
    print "void _initialize_copying (void);"
    print ""
    print ""];";
    print "show_copying_command (char *ignore, int from_tty);";
    print "
    print "show_warranty_command (char *ignore, int from_tty);";
    print "
    print "void _initialize_copying (void);";
    print "
    print ""];";
NR == 1./*[ ]*15\]. Disclaimer of Warranty\.[ ]*$/{
  if ($0 ~ //)
  {
    printf " printf_filtered ("\n\n\n";
  }
else if ($0 !~ /*[ ]*15\]. Disclaimer of Warranty\.[ ]*$/{
  printf " printf_filtered ("\n\n";
    for (i = 1; i < NF; i++)
  printf "%%%s\n\n" "%s\n\n", $NF;
}

}  /*[ ]*15\]. Disclaimer of Warranty\.[ ]*$/{
  print "\n\n\n\\n\n\n",
    print "static void",
    print "show_warranty_command (char *ignore, int from_tty)",
    print "\n",
}
}  /*[ ]*15\]. Disclaimer of Warranty\.[ ]*$/, /*[ ]*END OF TERMS AND CONDITIONS[ ]*$/{
  if (! ($0 ~ /*[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
  {
    printf " printf_filtered ("\n\n\n";
    for (i = 1; i < NF; i++)
  printf "%%%s\n\n" "%s\n\n", $NF;
  }
}
}
END{
  print "\n",
  print "\n",
  print "void",
  print "_initialize_copying (void)",
  print "\n",
  print "add_cmd ("copying", no_set_class, show_copying_command,",
  print "  _("Conditions for redistributing copies of GDB."),",
  print "  &showlist);",
  print "add_cmd ("warranty", no_set_class, show_warranty_command,",
  print "  _("Various kinds of warranty you do not have."),",
  print "  &showlist);",
  print "",
  print "# For old-timers, allow \"info copying\", etc. */",
  print "add_info ("copying", show_copying_command,",
  print "  _("Conditions for redistributing copies of GDB."));",
  print "add_info ("warranty", show_warranty_command,",
  print "  _("Various kinds of warranty you do not have."));";
}
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@enumerate a
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@end heading

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end example

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:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end example
The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ```about box```.

You should also get your employer (if you work as a programmer) or school, if any, to sign a ```copyright disclaimer``` for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see `@url{http://www.gnu.org/licenses/}`.

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Version 2, June 1991

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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a) Accompany the combined library with a copy of the same work
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.90 gdbm 1.10 :8.el7
1.90.1 Available under license :

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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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.

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a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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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.

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

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

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
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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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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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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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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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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.

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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.

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.

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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.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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1.97 glusterfs 3.8.4 :54.15.el7.centos

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From ac610b87289530bcedb9e245912c4491c1affd5 Mon Sep 17 00:00:00 2001
From: Niels de Vos <ndevos@redhat.com>
Date: Thu, 6 Jul 2017 17:04:17 +0200
Subject: [PATCH 551/557] nfs: add permission checking for mounting over WebNFS

Solaris 10 uses WebNFS and not the MOUNT protocol. All permission checks for allowing/denying clients to mount are done through the MNT handlers. These handlers will not give out a filehandle to the NFS-client when mounting is denied. This prevents clients from successful mounting. However, over WebNFS a well known 'root-filehandle' is used directly with the NFSv3 protocol.

When WebNFS was used, no permission checks (the "nfs.export-dir" option) were applied. Now the WebNFS mount-handler in Gluster/NFS calls the mnt3_parse_dir_exports() function that takes care of the permission checking.

Cherry picked from commit e304f48fa262e5cdebe181fb3fee5dfb9c893108c:
> BUG: 1468291
> Change-Id: Ic9dfd092473ba9c1c7b5fa38401cf9c0aa8395bb
> Signed-off-by: Niels de Vos <ndevos@redhat.com>
> Reviewed-on: https://review.gluster.org/17718
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: soumya k <skoduri@redhat.com>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: Kaleb KEITHLEY <kkeithle@redhat.com>

Change-Id: Ic9dfd092473ba9c1c7b5fa38401cf9c0aa8395bb
BUG: 1451224
Signed-off-by: Niels de Vos <ndevos@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/111770
Reviewed-by: Atin Mukherjee <amukherj@redhat.com>

---
xlators/nfs/server/src/mount3.c | 60 ++++++++++++++++++++-----------
xlators/nfs/server/src/mount3.h | 7 ++++
xlators/nfs/server/src/nfs-common.c | 25 ++++++-------
xlators/nfs/server/src/nfs3.c | 71 +++++++++++++++++++----------------
4 files changed, 100 insertions(+), 63 deletions(-)

diff --git a/xlators/nfs/server/src/mount3.c b/xlators/nfs/server/src/mount3.c
index b735038..a5b081b 100644
--- a/xlators/nfs/server/src/mount3.c
+++ b/xlators/nfs/server/src/mount3.c
@@ -945,7 +945,7 @@ err:
 * we need to strip out the volume name first.
 */
char *
-__volume_subdir (char *dirpath, char **volname)
+mnt3_get_volume_subdir (char *dirpath, char **volname)
{
   char *subdir = NULL;
   int volname_len = 0;
@@ -1024,10 +1024,6 @@ mnt3_resolve_subdir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
 struct iatt *buf, dict_t *xattr,
                     struct iatt *postparent);

-int
-mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
- char *subdir);
-
int32_t
mnt3_readlink_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
   int32_t op_ret, int32_t op_errno, const char *path,
@@ -1310,7 +1306,8 @@ mnt3 Resolve_subdir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
 * for the populated mount path
 */
- ret = mnt3_parse_dir_exports (mres->req, mres->mstate, real_loc);
+ ret = mnt3_parse_dir_exports (mres->req, mres->mstate, real_loc,
+    _gf_true);

  if (ret) { 

Open Source Used In Cisco Prime Network Registrar 10.0
1562
gf_msg (GF_MNT, GF_LOG_ERROR, 0, NFS_MSG_RESOLVE_ERROR),
@@ -1518,7 +1515,8 @@ mnt3_verify_auth (struct sockaddr_in *client_addr, struct mnt3_export *export)
 int
 mnt3_resolve_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
 -       struct mnt3_export *exp, char *subdir)
+       struct mnt3_export *exp, char *subdir,
+       gf_boolean_t send_reply)
 {
     mnt3_resolve_t  *mres = NULL;
     int ret = -EFAULT;
@@ -1542,6 +1540,10 @@ mnt3_resolve_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
 }
+
 +        /* no reply is needed (WebNFS permissions checking), just return */
 +        if (!send_reply)
 +            return 0; /* no error, mnt3_verify_auth() allowed it */
 +
 +        mres = GF_CALLOC (1, sizeof (mnt3_resolve_t), gf_nfs_mt_mnt3_resolve);
 if (!mres) {
     gf_msg (GF_MNT, GF_LOG_ERROR, ENOMEM, NFS_MSG_NO_MEMORY,
@@ -1586,11 +1588,11 @@ mnt3_resolve_export_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
 if ((!req) || (!ms) || (!exp))
         return ret;
-
 -        volume_subdir = __volume_subdir (exp->expname, NULL);
 +        volume_subdir = mnt3_get_volume_subdir (exp->expname, NULL);
     if (!volume_subdir)     
         goto err;

 -        ret = mnt3_resolve_subdir (req, ms, exp, volume_subdir);
 +        ret = mnt3_resolve_subdir (req, ms, exp, volume_subdir, _gf_true);
     if (ret < 0) {
         gf_msg (GF_MNT, GF_LOG_ERROR, ret, NFS_MSG_RESOLVE_SUBDIR_FAIL,
             "Failed to resolve export dir: %s", exp->expname);
@@ -1687,7 +1689,7 @@ err:
         return ret;
     }

-    static int
+    int
 mnt3_check_client_net_tcp (rpcsvc_request_t *req, char *volname)
 {
     rpcsvc_t  *svc = NULL;
@@ -1761,25 +1763,41 @@ err:
     int

mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
-    char *subdir)
+    char *path, gf_boolean_t send_reply)
{
    char            volname[1024] = {0, };
    struct mnt3_export *exp = NULL;
    char            *volname_ptr = NULL;
+    char            *subdir = NULL;
    struct nfs_state   *nfs = NULL;
    int            ret = -ENOENT;

-    if (!ms) || (!subdir)
+    if (!ms) || (!path)
      return -1;

    volname_ptr = volname;
-    subdir = __volume_subdir (subdir, &volname_ptr);
-    if (!subdir)
+    if (!path)
      return -1;
+              subdir = mnt3_get_volume_subdir (path, &volname_ptr);
+              if (!subdir) {
+                gf_msg_trace (GF_MNT, 0, "Could not parse volname/subdir from ")
+                  "%s", path);
+                goto err;
+              }
+              exp = mnt3_mntpath_to_export (ms, path, _gf_false);
+              if (!exp) {
+                gf_msg_trace (GF_MNT, 0, "Could not find exact matching export ")
+                  "for path=%s", path);
+                /* if no exact match is found, look for a fallback */
+                exp = mnt3_mntpath_to_export (ms, volname, _gf_true);
+                if (!exp) {
+                  gf_msg_trace (GF_MNT, 0, "Could not find export for ")
+                    "volume %s", volname);
+                  goto err;
+                }
+                nfs = (struct nfs_state *)ms->nfsx->private;
+                if (!nfs)
+                    goto err;
+              }
+              gf_msg_trace (GF_MNT, 0, "volume %s and export %s will be used for ")
+                "path %s", exp->vol->name, exp->expname, path);

    nfs = (struct nfs_state *)ms->nfsx->private;
    if (!nfs)
        goto err;
}
- ret = mnt3_resolve_subdir (req, ms, exp, subdir);
+ ret = mnt3_resolve_subdir (req, ms, exp, subdir, send_reply);
    if (ret < 0) {
        gf_msg (GF_MNT, GF_LOG_ERROR, ret, NFS_MSG_RESOLVE_SUBDIR_FAIL,
               "Failed to resolve export dir: %s", subdir);
    }
}
@@ -1841,7 +1859,7 @@ mnt3_find_export (rpcsvc_request_t *req, char *path, struct mnt3_export **e)
    goto err;
}
- ret = mnt3_parse_dir_exports (req, ms, path);
+ ret = mnt3_parse_dir_exports (req, ms, path, _gf_true);

err:
    return ret;
@@ -2914,7 +2932,7 @@ nfs3_rootfh (struct svc_req *req, xlator_t *nfsx,
            * 3. If a subdir is exported using nfs.export-dir,
            *      then the mount type would be MNT3_EXPTYPE_DIR,
            *      so make sure to find the proper path to be
-            *      resolved using __volume_subdir()
+            *      resolved using mnt3_get_volume_subdir()
            * 3. Make sure subdir export is allowed.
            */
            ms = __mnt3udp_get_mstate(nfsx);
@@ -2937,7 +2955,7 @@ nfs3_rootfh (struct svc_req *req, xlator_t *nfsx,
                    return NULL;
                }
- path = __volume_subdir (path, &volptr);
+ path = mnt3_get_volume_subdir (path, &volptr);
    if (exp == NULL)
        exp = mnt3_mntpath_to_export (ms, volname , _gf_false);
    }

diff --git a/xlators/nfs/server/src/mount3.h b/xlators/nfs/server/src/mount3.h
index ce01a6c..8868aec 100644
--- a/xlators/nfs/server/src/mount3.h
+++ b/xlators/nfs/server/src/mount3.h
@@ -178,4 +178,11 @@ struct mount3_resolve_state {
 typedef struct mount3_resolve_state mnt3_resolve_t;

+int
+mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
+                        char *subdir, gf_boolean_t send_reply);
+char*
+mnt3_get_volume_subdir (char *path, char **volname);
diff --git a/xlators/nfs/server/src/nfs-common.c b/xlators/nfs/server/src/nfs-common.c
index 5269188..2f742d4 100644
--- a/xlators/nfs/server/src/nfs-common.c
+++ b/xlators/nfs/server/src/nfs-common.c
@@ -73,8 +73,8 @@ nfs_xlator_to_xlid (xlator_list_t *cl, xlator_t *xl)
xlator_t *

nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
{
- char *volname = NULL;
- char *volptr = NULL;
+ char *volname = NULL; /* volume name only */
+ char *volptr = NULL; /* ptr to original volname */
    size_t pathlen = -1;
    xlator_t *targetxl = NULL;
    int i = 0;
@@ -82,14 +82,16 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
    if ((!cl) || (!path))
        return NULL;

- volname = strdupa (path);
- pathlen = strlen (volname);
+ volname = volptr = gf_strdup (path);
+ if (!volname)
+     return NULL;
+     
+     if (volname[0] == '/')
+         pathlen = strlen (volname);
+     else
+             volptr = &volname[0];
+             volname++;
+             
+     pathlen = strlen (volname);
+     for (i = 0; i < pathlen; i++) {
+         if (volname[i] == '/')
+             volname[i] = '0';
@@ -98,10 +100,10 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
    while (cl) {
-        gf_msg_trace (GF_NFS, 0, "Volptr: %s and cl->xlator->name: %s",
-                      volptr, cl->xlator->name);
+        gf_msg_trace (GF_NFS, 0, "Volname: %s and cl->xlator->name: %s",
+                      volname, cl->xlator->name);
+    }
if (strcmp (volptr, cl->xlator->name) == 0) {
    targetxl = cl->xlator;
    break;
}
@@ -109,8 +111,9 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
        cl = cl->next;
    }

    return targetxl;
+    GF_FREE (volptr);
    return targetxl;
}

diff --git a/xlators/nfs/server/src/nfs3.c b/xlators/nfs/server/src/nfs3.c
index bb68bc1..7443dbc 100644
--- a/xlators/nfs/server/src/nfs3.c
+++ b/xlators/nfs/server/src/nfs3.c
@@ -349,44 +349,51 @@ out:

static enum nfsstat3
-nfs3_funge_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fhd,
-                                     char *name)
+int nfs3_funge_webnfs_zerolen_fh (rpcsvc_request_t *req, struct nfs3_state *nfs3st,
+                                     struct nfs3_fh *fhd, char *name)
{
    -        xlator_t        *fungexl  = NULL;
    -        glfs_t          *fs      = NULL;
    -        loc_t            loc      = { 0, }; 
    -        enum nfsstat3    nfsstat  = NFS3ERR_SERVERFAULT;
    -        int              ret      = -1;
    -        size_t           namelen = -1;
    +        xlator_t        *fungexl  = NULL;
    +        struct nfs_state *nfs      = NULL;
    +        glfs_t          *fs      = NULL;
    +        loc_t            loc      = { 0, }; 
    +        int              ret      = -1;
    +        char               *subdir    = NULL;
    +        char                volname[NAME_MAX] = { 0, }; 

    fungexl = nfs_mntpath_to_xlator (nfs3st->exportslist, name);
    if (!fungexl) {
        -            nfsstat = NFS3ERR_NOENT;
+            return NFS3ERR_NOENT;
    }
gf_msg_trace (GF_NFS3, 0, "failed to find xlator for volume");
ret = -ENOENT;
goto out;
}
/* fungexl is valid, set for nfs3_request_xlator_deviceid() */
rpcsrvc_request_set_private (req, fungexl);
+
/* Permission checks are done through mnt3_parse_dir_exports(). The
 * "nfs.export-dir" option gets checked as well. */
+ nfs = nfs_state (nfs3st->nfsx);
+ ret = mnt3_parse_dir_exports (req, nfs->mstate, name, _gf_false);
+ if (ret) { 
+         gf_msg_trace (GF_NFS3, -ret, "mounting not possible");
+         goto out;
+
/* glfs_resolve_at copied from UDP MNT support */
fs = glfs_new_from_ctx (fungexl->ctx);
if (!fs) {
-         nfsstat = NFS3ERR_NOENT;
+         gf_msg_trace (GF_NFS3, 0, "failed to create glfs instance");
+         ret = -ENOENT;
+         goto out;
}
-         /* strip volname/ from 'name' */
-         namelen = strlen(name);
-         while (namelen != 0) {
-                 name++;
-                 if (name[0] == '/') {
-                         break;
-                 }
-         }
-         namelen--;
-         }
-         gf_msg_debug (GF_NFS, 0, "NAME :%s ", name);
+         /* split name "volname/sub/dir/s" into pieces */
+         subdir = mnt3_get_volume_subdir (name, (char**) &volname);
         ret = glfs_resolve_at (fs, fungexl, NULL, name, &loc, NULL, 1, 0);
+         ret = glfs_resolve_at (fs, fungexl, NULL, subdir, &loc, NULL, 1, 0);
if (ret != 0) {
-                 nfsstat = NFS3ERR_NOENT;
+                 gf_msg_trace (GF_NFS3, 0, "failed to resolve %s", subdir);
+                 ret = -ENOENT;
+                 goto out;
}

@@ -399,17 +406,17 @@ nfs3_funge_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fhd,
fungexl);

else {
    if (__nfs3_get_volume_id (nfs3st, fungexl, fhd->exportid) < 0) {
        nfsstat = NFS3ERR_STALE;
        ret = -ESTALE;
        goto out;
    }
    nfsstat = NFS3_OK;
    ret = 0;
out:
    if (fs)
        glfs_free_from_ctx (fs);
    return nfsstat;
    return ret;
}

@@ -470,8 +477,10 @@ nfs3_solaris_zerolen_fh (struct nfs3_fh *fh, int fhlen)
    if (nfs3_fh_validate (fh))
        return 0;

-        if (fhlen == 0)
+        if (fhlen == 0) {
+                gf_msg_trace (GF_NFS3, 0, "received WebNFS request");
+                return 1;
+        }

        return 0;
    }
@@ -1544,8 +1553,8 @@ nfs3_lookup (rpcsvc_request_t *req, struct nfs3_fh *fh, int fhlen, char *name)
    if (nfs3_solaris_zerolen_fh (fh, fhlen)) {
-        stat = nfs3_funge_webnfs_zerolen_fh (nfs3, fh, name);
-        if (stat != NFS3_OK)
+        ret = nfs3_funge_webnfs_zerolen_fh (req, nfs3, fh, name);
+        if (ret < 0)
            goto nfs3err;

        /* this fh means we're doing a mount, name is no more useful */
@@ -1564,12 +1573,12 @@ nfs3_lookup (rpcsvc_request_t *req, struct nfs3_fh *fh, int fhlen, char *name)
            if (ret < 0) {
                gf_msg (GF_NFS, GF_LOG_ERROR, -ret,
                        NFS_MSG_HARD_RESOLVE_FAIL,
-                        "failed to start hard reslove");
- stat = nfs3_errno_to_nfsstat3 (-ret);
+ "failed to start hard resolve");
}

nfs3err:
    if (ret < 0) {
+    stat = nfs3_errno_to_nfsstat3 (-ret);
            nfs3_log_common_res (rpcsvc_request_xid (req),
                NFS3_LOOKUP, stat, -ret,
                cs ? cs->resolvedloc.path : NULL);
--
1.8.3.1

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

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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>
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>
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 a2cb732a71d341edb65e4cd8f103a3f43c35e8589 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: If894e3895d070d46b62d2452e52c1eaa0cf56c29
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 comparision
+TEST permission_root=`stat -c "%A" $M0`
+TEST echo $permission_root

#Add-brick
+TEST $CLI 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,
    local->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 (local->stbuf.ia_type != IA_INVAL)
{
    if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
-        (local->stbuf.ia_uid != stbuf->ia_uid)) {
+        (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;
            }
        } else {
            return 0;
        }
}

Open Source Used In Cisco Prime Network Registrar 10.0
1591
@@ -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,
      }
  }

1.98 gmp 6.0.0 :15.el7
1.98.1 Available under license :
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   Version 3, 29 June 2007

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<signature of Ty Coon>, 1 April 1989
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1.100 gobject-introspection 1.50.0 :1.el7

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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

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/gx ditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit bm
src/devices/xditview/xdit_mask bm
src/devices/xditview/xditview.c

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

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

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

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

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

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

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

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

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

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

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

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

  The patterns have been converted to a format groff can understand.

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

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

    http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
    http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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

    http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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1.107 grub2 2.02 :0.65.el7.centos.2
1.107.1 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_BOOTWEDGE 10
#define NETBSD_BTINFO_MODULES 11
#define NETBSD_BTINFO_FRAMEBUF 12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{ }
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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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"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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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
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under terms of your choice, provided that the terms permit
modifications 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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directing the user to the copy of this License.  Also, you must do one
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) 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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d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

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

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

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

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1.111 gtk3 3.22.26 :4.el7_5

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

Preamble

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

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
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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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.

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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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'szlo' 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.
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## -.makefile.-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

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## Commands to generate dependency files

GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.\$(STATIC_O): \$(srcdir)/%.c
\$(COMPILE.c) \$(STATICCPPFLAGS) \$(STATICCFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.c
\$(COMPILE.c) \$(DYNAMICCPPFLAGS) \$(DYNAMICCFLAGS) -o \$@ \$<

%.\$(STATIC_O): \$(srcdir)/%.cpp
\$(COMPILE.cc) \$(STATICCPPFLAGS) \$(STATICCXXFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.cpp
\$(COMPILE.cc) \$(DYNAMICCPPFLAGS) \$(DYNAMICCXXFLAGS) -o \$@ \$<

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

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

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.121 initscripts 9.49.41 :1.el7_5.1

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Glenn Randers-Pehrson
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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a {@link java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * {@link java.lang.RuntimePermission},
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *<p>
 * An important method that must be implemented by each subclass is
 * the {@link #implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {
private static final long serialVersionUID = -563657022231596674L;

private String name;

/**
 * Constructs a permission with the specified name.
 * @param name name of the Permission object being created.
 */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * SecurityManager.checkPermission method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException
 *         if a security manager exists and its
 *         checkPermission method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * <p>
 * The implies method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <p>
 * Do not use the {@code equals} method for making access control
decisions; use the {@code implies} method.
 * 
 * @param obj the object we are testing for equality with this object.
 * 
 * @return true if both Permission objects are equivalent.
 * */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required {@code hashCode} behavior for Permission Objects is
* the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
* once during an execution of a Java application, the
* {@code hashCode} method
* must consistently return the same integer. This integer need not
* remain consistent from one execution of an application to another
* execution of the same application.
* <li>If two Permission objects are equal according to the
*{@code equals}
* method, then calling the {@code hashCode} method on each of the
*two Permission objects must produce the same integer result.
* </ul>
* 
* @return a hash code value for this object.
* */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a {@code java.io.FilePermission},
 * 
 * @param permission the permission to check against.
 * 
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 * *
 * both return
 * "read,write" when the {@code getActions} method is invoked.
 * *
 * @return the actions of this Permission.
 * *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {

return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('"ClassName" "name" "actions"'), or
 * ('"ClassName" "name") if actions list is null or empty.
 * @return information about this Permission.
 */
public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}
*/

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* or visit www.oracle.com if you need additional information or have any
* questions.
*/

package java.security.acl;

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/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 * @author Satish Dharmaraj
 */
public interface Permission {

/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 * @param another the Permission object to compare with.
 * @return true if the Permission objects are equal, false otherwise
 */
public boolean equals(Object another);

/**
 * Prints a string representation of this permission.
 * @return the string representation of the permission.
 */
public String toString();
}

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# # questions.                                                                  
# # Version                                                                   
# # Uses Fedora Core 6 fonts and file paths.                                     
# version=1                                                                    
# # Component Font Mappings                                                     
# dialog.plain.latin-1=DejaVu LGC Sans                                           
# dialog.plain.japanese-x0208=Sazanami Gothic                                 
# dialog.plain.korean=Baekmuk Gulim                                            
# dialog.plain.chinese-big5=AR PL ShanHeiSun Uni                               
# dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
        "/*
         * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.
         */
    private static final String ORACLE_AFTER2012 =
        "/*
         * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.
         */

    private static final String ORACLE2013 =
        "/*
         * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.
         */
    private static final String ORACLE_AFTER2013 =
        "/*
         * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.
         */

    public static String generateCopyrightHeader(int year) {
        if (year <= 2012) {
            return ORACLE2012;
        } else if (year <= 2013) {
            return ORACLE2013;
        } else {
            return ORACLE_AFTER2013;
        }
    }
}

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 */

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+ " */\n"
;

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" * or visit www.oracle.com if you need additional information or have any \n" +
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" */
"

private static String OPENJDK_AFTER2012 =
"*/
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" *\n" +
" * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA \n" +
" * or visit www.oracle.com if you need additional information or have any \n" +
" * questions. \n" +
" */
"

static String getOracleCopyright() {

...
int year = getYear();
return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
                                   Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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#

platform=bsd

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 */

import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {
    }

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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1.134 javapackages-tools 3.4.1 :11.el7

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>2byte4256 characters, Unicode level 2 index
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>3byte8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong 0x864ab572 psf2 screen font data
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1.138 kernel 3.10.0 :862.el7

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* */
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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* 
* M. Welsh, 6 July 1996
* 
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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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1.139.1 Available under license:
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.
*
*
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* M. Welsh, 6 July 1996
*
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            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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

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

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

6. As an exception to the Sections above, you may also 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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1.141 keyutils 1.5.8 :3.el7

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

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

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

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

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

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

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

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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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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/gsssd_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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cmd/krb5/kproplog/kproplog.c

cmd/krb5/slave/kpropd_rpc.c

lib/gss_mechs/mech_krb5/et/kdb5_err.c

lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h

lib/gss_mechs/mech_spnego/mach/spnego_mach.c

lib/krb5/kadm5/kadm_host_srv_names.c

lib/krb5/kdb/kdb_convert.c

lib/krb5/kdb/kdb_hdr.h

lib/krb5/kdb/kdb_log.c

lib/krb5/kdb/kdb_log.h

lib/libgss/g_accept_sec_context.c

lib/libgss/g_acquire_cred.c

lib/libgss/g_canon_name.c

lib/libgss/g_compare_name.c

lib/libgss/g_context_time.c

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# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

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
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:
            if code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*-* mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ ]*) (- .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*\*\*\*\*\*\*\*\*\*\*\*\*', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            if not in_comment and '/' in line:
                (line, sep, comment_part) = line.partition('/')
                comment = [comment_part.strip()]
                comment_starts_at = ln
            if not in_comment and '*/' in line:
                (line, sep, comment_part) = line.partition('*/')
                comment = [comment_part.strip()]
in_comment = True
elif in_comment and "/*" not in line:
    comment.append(line.lstrip("*/").lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition("*/")
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                 code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != "":
    code_seen = True

ln += 1

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

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<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>

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- <span class="pre">lib/gssapi/mechglue/g_accept_sec_context.c</span>
- <span class="pre">lib/gssapi/mechglue/g_acquire_cred.c</span>
- <span class="pre">lib/gssapi/mechglue/g_canon_name.c</span>
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- <span class="pre">lib/gssapi/mechglue/g_context_time.c</span>
- <span class="pre">lib/gssapi/mechglue/g_delete_sec_context.c</span>
- <span class="pre">lib/gssapi/mechglue/g_dup_name.c</span>
- <span class="pre">lib/gssapi/mechglue/g_exp_sec_context.c</span>
- <span class="pre">lib/gssapi/mechglue/g_export_name.c</span>
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- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop_x.c`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `slave/kpropd_rpc.c`
- `slave/kproplog.c`

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

```python
(include/iprop_hdr.h)
```

```python
(kadmin/server/ipropd_svc.c)
```

```python
(lib/kdb/iprop_x.c)
```

```python
(lib/kdb/kdb_convert.c)
```

```python
(lib/kdb/kdb_log.c)
```

```python
(lib/krb5/error_tables/kdb5_err.et)
```

```python
(slave/kpropd_rpc.c)
```

```python
(slave/kproplog.c)
```
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

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

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

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.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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1.148 less 458 :9.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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library
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If such an object file uses only numerical parameters, data
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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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the user installs one, as long as the modified version is
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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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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
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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b) 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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@end enumerate

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### 1.155 libcroco 0.6.11 :1.el7

#### 1.155.1 Available under license :

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Version 2, June 1991

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

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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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
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.
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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That's all there is to it!

1.156 libdaemon 0.14 :7.el7
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(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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--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
+++ db-5.3.21/src/crypto/mersenne/mt19937db.c
@@ -16,16 +16,27 @@
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1.160 libdrm 2.4.83 :2.el7

1.161 libdwarf 20130207 :4.el7
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David Anderson: December 2006
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1.173 libiscsi 1.9.0 :7.el7

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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1.177 libmspack 0.5 :0.5.alpha.el7

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Version 2.1, February 1999

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

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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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1.182 libnl 1.1.4 :3.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
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
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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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Version 3, 29 June 2007

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1.207 libuser 0.60 :9.el7

1.207.1 Available under license:

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Version 2, June 1991

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

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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.

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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
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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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1.208 libutempter 1.1.6 :4.el7

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

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

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

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1.228 libXv 1.0.11 :1.el7

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```
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**1.235 lm_sensors 3.4.0**

**:4.20160601gitf9185e5.el7**

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

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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 * Part No: 816-1331-11
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Network Working Group	H. Krawczyk
Request for Comments: 2104	IBM
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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(at your option) any later version.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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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
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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Version 2, June 1991

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

Preamble

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

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

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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
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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.

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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
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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.

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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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----------------------#'

Open Source Used In Cisco Prime Network Registrar 10.0
3369
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'

# 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
--echo '#---------------------BS_STVARS_040_01----------------------#'
--echo 1 Expected
--echo '%%%%%%%%%%%%%%%%BS_STVARS_040_02%%%%%%%%%%%%%%%%'%#
####################################################################
# Check if Value can set
#
####################################################################

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

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

--echo '%%%%%%%%%%%%%%%%BS_STVARS_040_03%%%%%%%%%%%%%%%%'%#
#################################################################
# Check if the value in GLOBAL Table matches value in variable#
#################################################################

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

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

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '%%%%%%%%%%%%%%%%BS_STVARS_040_04%%%%%%%%%%%%%%%%'%#
################################################################################
#  Check if accessing variable with and without GLOBAL point to same variable #
################################################################################

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '%%%%%%%%%%%%%%%%BS_STVARS_040_05%%%%%%%%%%%%%%%%'%#
################################################################################
#  Check if license can be accessed with and without @@ sign  #
################################################################################

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

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

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

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

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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

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The MariaDB packages were initally 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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1.252 mdadm 4.0 :13.el7

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From 99148c19bd9149bb938309ff6b4dcde20b67934 Mon Sep 17 00:00:00 2001
From: Zhilong Liu <zniliu@suse.com>
Date: Tue, 2 May 2017 17:27:13 +0800
Subject: [RHEL7.5 PATCH 105/169] change back 0644 permission for Grow.c

Fixes commit:
26714713cd2b ("mdadm: Change timestamps to unsigned data type.")

Signed-off-by: Zhilong Liu <zniliu@suse.com>
Signed-off-by: Jes Sorensen <jsorensen@fb.com>
---
Grow.c | 0
1 file changed, 0 insertions(+), 0 deletions(-)
mode change 100755 => 100644 Grow.c

diff --git a/Grow.c b/Grow.c
old mode 100755
new mode 100644
--
2.7.4

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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

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1.253 mesa 17.2.3 :8.20171019.el7
1.253.1 Available under license :

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’s 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”, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez’s MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,
Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez’s MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
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# Authors:
#   Ian Romanick <idr@us.ibm.com>

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SOFTWARE."""
/* Legal characters in GLSL are:
 *
 * Identifier characters:
 *
 *   Letters a-z
 *   Letters A-Z
 *   Underscore
 *   Numbers 0-9
 *
 * Punctuation:
 *
 *   Period, plus, dash, slash, asterisk, percent, angled brackets,
 *   square brackets, parentheses, braces, caret, vertical bar,
 *   ampersand, tilde, equals, exclamation point, colon, semicolon,
 *   comma, and question mark
 *
 * Special:
 *
 *   Number sign (as used in preprocessor)
 *
 *   Backslash just before newline as line continuation
 *
 * White space:
 *
 *   Space, horizontal tab, vertical tab, form feed, carriage-return,
 *   and line-feed.
 *
 * [GLSL Language Specification 4.30.6, section 3.1]
 *
 * In this file, we test each of these in turn as follows:
* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
  * Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
  * 2 newline characters each replaced with a newline
* */

abcdefghijklmnopqrstuvwxyz
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Mesa is a 3-D graphics library with an API which is very similar to that of <a href="https://www.opengl.org/">OpenGL</a>.*
To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from <a href="https://www.sgi.com/">Silicon Graphics, Inc.</a>(SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

Please do not refer to the library as <em>MesaGL</em> (for legal reasons). It's just <em>Mesa</em> or <em>The Mesa 3-D graphics library</em>.


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The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

```
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```

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Mesa Component Licenses
<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
<tr>
<td>C11 thread</td>
<td>include/c11/threads*.h</td>
<td>Boost (permissive)</td>
</tr>
</tbody>
</table>

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This updated microcode supersedes microcode provided by Red Hat with the CVE-2017-5715 (Spectre) CPU branch injection vulnerability mitigation.

Historically, Red Hat has provided updated microcode, developed by our microprocessor partners, as a customer convenience. Red Hat had temporarily suspended this practice while microcode stabilized. Red Hat is once again providing an updated Intel microcode package (microcode_ctl) and AMD microcode package (linux-firmware) to customers in order to simplify deployment processes and minimize downtime. We will continue to update these microcode packages as necessary. Please contact your hardware vendor to determine whether more recent BIOS/firmware updates are recommended because additional improvements may be available.

This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

1.255 mlocate 0.26 :8.el7
1.255.1 Available under license :

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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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# canonicalize-lgpl.m4 serial 4
dnl Copyright (C) 2003, 2006-2007 Free Software Foundation, Inc.
dnl This file is free software; the Free Software Foundation
dnl gives unlimited permission to copy and/or distribute it,
AC_DEFUN([gl_CANONICALIZE_LGPL],
[
    dnl Do this replacement check manually because the file name is shorter
    dnl than the function name.
    AC_CHECK_DECLS_ONCE(canonicalize_file_name)
    AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
    if test $ac_cv_func_canonicalize_file_name = no; then
        AC_LIBOBJ(canonicalize-lgpl)
        AC_DEFINE([realpath], [rpl_realpath],
            [Define to a replacement function name for realpath().])
        gl_PREREQ_CANONICALIZE_LGPL
    fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
    AC_CHECK_DECLS_ONCE(canonicalize_file_name)
    AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
    gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
    AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
    AC_CHECK_FUNCS_ONCE(getcwd readlink)
])

1.256 mozjs17 17.0.0 :20.el7

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**1.259 ncurses 5.9 :14.20130511.el7_4**

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ / 
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1.275 openssh 7.4p1 :16.el7

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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef COMPAT_POLL_H
#define COMPAT_POLL_H
#define COMPAT_POLL_H
#endif
#endif
typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
int waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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  *
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*********************************************/
It force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
On some systems,
-diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *queue;
 /* Version of client */
 static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
    Attrib a;
    char *name;
    int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+    mode_t old_umask = 0;

    if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
         (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
        debug3("request %u: open flags %d", id, pflags);
        flags = flags_from_portable(pflags);
        mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+        if (permforce == 1) {   /* Force perm if -m is set */
+            mode = permforcemode;
+            old_umask = umask(0); /* so umask does not interfere */
+        }
        logit("open \"%s\" flags %s mode 0%o",
            name, string_from_portable(pflags), mode);
    if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
    }
    }
+    if (permforce == 1)
+        (void) umask(old_umask); /* restore umask to something sane */
    if (status != SSH2_FX_OK)
        send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage()
   fprintf(stderr, 
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
    "[-l log_level] [n][t][-P blacklisted_requests] 
-    "[-p whitelisted_requests] [-u umask]]\n" 
+    "[-p whitelisted_requests] [-u umask] [-m force_file_perms] \n" 
    " %s -Q protocol_feature\n", 
    __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv, 
switch (ch) {
    case 'Q':
if (strcasecmp(optarg, "requests") != 0) { 
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
fatal("Invalid umask \"%s\"", optarg);
(void)umask((mode_t)mask);
break;
+case 'm':
+/* Force permissions on file received via sftp */
+permforce = 1;
+permforcemode = strtol(optarg, &cp, 8);
+if (permforcemode < 0 || permforcemode > 0777 ||
+ "*ep != \"0\" || (permforcemode == 0 &&
+ "errno != 0))
+fatal("Invalid file mode \"%s\"", optarg);
+break;
+ case 'h':
+break;
+ default:
+ sftp_server_usage();
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#include <sys/types.h>
#include <sys/time.h>
#include <sys/resource.h>
#include <sys/sysproto.h>
#include <sys/socket.h>
#include <netinet/tcp.h>
#include <netinet/in.h>

/* Definitions used by the tcpip interface. */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);

#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @version 3.0 (December 2000)
*
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*
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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscape's SSL.
 *
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linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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b) Accompany the work with a written offer, valid for at 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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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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Ty Coon, President of Vice

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The End
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---

hv.c | 6 ++++++
sv.c | 7 ++++-
t/op/svleak.t | 22 +++++++++++++++++++++-
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copyHints_hv(pTHX_ HV *const ohv)
}
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
}

hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
+
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
+ new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv() 
- SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
   with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}
diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APItest not available");
 }

-plan tests => 23;
-plan tests => 24;
# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
    undef $h;
}, 'tied hash iteration does not leak');
+
+﻿# [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE    { $_[0][0]{$_[1]} = $_[2] }
+    sub FETCH    { die if $explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys @{$_[0][0]}; each @{$_[0][0]} }
+    sub NEXTKEY  { each @{$_[0][0]} }
+}
+leak(2,!!$Config{mad}, sub {
+    eval q`
+    BEGIN {
+        $hhtie::explosive = 0;
+        tie %^H, hhtie;
+        $^H{foo} = bar;
+        $hhtie::explosive = 1;
+    }
+    { 1; }
+    `;
+}, 'hint-hash copying does not leak');
--
1.8.1.4
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---

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#-----------------------------------------------------------------------------------#

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl', "license 'perl' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/", "META license URL is correct" );
}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare', "license 'VaporWare' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/", "META license URL is correct" );
}
"META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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1.286 perl-Business-ISBN 2.06 :2.el7
1.286.1 Available under license :
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1.287 perl-Business-ISBN-Data 20120719.001 :2.el7
1.287.1 Available under license :
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1.288 perl-Carp 1.26 :244.el7
1.288.1 Available under license :
From RPM File Metadata:GPL+ or Artistic

1.289 perl-Compress-Raw-Bzip2 2.061 :3.el7
1.289.1 Available under license :

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

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

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1.291.1 Available under license :
From RPM File Metadata:GPL+ or Artistic

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1.300 perl-File-Temp 0.23.01 :3.el7

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
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the Free Software Foundation; either version 1, or (at your option)
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along with this program; if not, write to the Free Software
Foundation, Inc., 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) 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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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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The End

1.314 perl-IO-Socket-SSL 1.94 :7.el7

1.315 perl-libwww-perl 6.05 :2.el7
1.315.1 Available under license :
   From RPM File Metadata:GPL+ or Artistic

1.316 perl-LWP-MediaTypes 6.02 :2.el7
1.316.1 Available under license :
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1.317 perl-Mozilla-CA 20130114 :5.el7

1.318 perl-Net-HTTP 6.06 :2.el7
1.318.1 Available under license :
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1.319 perl-Net-LibIDN 0.12 :15.el7
1.319.1 Available under license :

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The End
This is the debian package for the Net-LibIDN module.
It was created by Thomas Jacob <jacob@internet24.de> using dh-make-perl.

The upstream author is:


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/usr/share/common-licenses/Artistic, a copy of the GPL in the same directory
in file GPL.
1.320 perl-Net-SSLeay 1.55 :6.el7

1.320.1 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).

1.320.2 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 componentets 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 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 confirmation 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:

```bash
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 yoursript.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)
perlcallback(1)

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To download OpenSSL, try URL http://www.openssl.org/

Of related interest may be `http://www.symlabs.com/Net_SSLeay/smime.html'
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1.347 popt 1.13 :16.el7

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1.348 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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1.349 procps-ng 3.3.10 :17.el7_5.2

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to use the modified definitions.)

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1.353 pygobject2 2.28.6 :11.el7

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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.

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Mersenne Twister

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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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.
Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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XML Remote Procedure Calls
---------------------------

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Select kqueue

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*/

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expat

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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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| 2.6.5   | 2.6.4          | 2010     | PSF     | yes         
| 2.7     | 2.6           | 2010     | PSF     | yes         

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1.359 python-augeas 0.5.0 :2.el7
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1.365 python-configobj 4.7.2 :7.el7
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1.369 python-enum34 1.0.4 :1.el7

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1.370 python-idna 2.4 :1.el7

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1.371 python-iniparse 0.4 :9.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.

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1.372 python-ipaddress 1.0.16 :2.el7

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1.374 python-jinja2 2.7.2 :2.el7

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1.375 python-jsonpatch 1.2 :4.el7

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1.381 python-markupsafe 0.11 :10.el7

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1.382 python-paramiko 2.1.1 :4.el7

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1.383 python-ply 3.4 :11.el7

1.384 python-prettytable 0.7.2 :3.el7

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1.386 python-pycparser 2.14 :1.el7

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1.387 python-pycurl 7.19.0 :19.el7

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1.388 python-pyudev 0.15 :9.el7

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1.390 python-schedutils 0.4 :6.el7

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# Contributions to the urllib3 project

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* 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>
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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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* 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

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  * 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 <nipunn1313@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>
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  * 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>
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* Evgeny Kapun <abacabababacaba@gmail.com>
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* 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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1.396 pyxattr 0.5.1 :5.el7
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1.397 PyYAML 3.10 :11.el7

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1.398 qemu-kvm 1.5.3 :156.el7_5.5

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

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.
A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif

SUBDIRS=
ifeq ($($SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
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
ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif

export TOP

include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I./include -I./include/x86emu \        -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
#!/bin/bash

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether 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 directory..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"

exit 0

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The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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Public License instead of this License.

Licensing and contribution policy of dtc and libfdt

This dtc package contains two pieces of software: dtc itself, and
libfdt which comprises the files in the libfdt/ subdirectory. These
two pieces of software, although closely related, are quite distinct.
dtc does not incorporate or rely on libfdt for its operation, nor vice
versa. It is important that these two pieces of software have
different license conditions.
As the copyright banners in each source file attest, dtc is licensed under the GNU GPL. The full text of the GPL can be found in the file entitled ‘GPL’ which should be included in this package. dtc code, therefore, may not be incorporated into works which do not have a GPL compatible license.

libfdt, however, is GPL/BSD dual-licensed. That is, it may be used either under the terms of the GPL, or under the terms of the 2-clause BSD license (aka the ISC license). The full terms of that license are given in the copyright banners of each of the libfdt source files. This is, in practice, equivalent to being BSD licensed, since the terms of the BSD license are strictly more permissive than the GPL.

I made the decision to license libfdt in this way because I want to encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL-incompatible firmware or tools. Allowing libfdt to be used under the terms of the BSD license makes it easier for vendors or authors of such software to do so.

This does mean that libfdt code could be "stolen" - say, included in a proprietary firmware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused therby is not dire.

Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more important goal.

**IMPORTANT** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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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_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer   86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#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_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_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspicocntl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrecv 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_NR_munlockall 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_sigaltstack 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_fstatfs 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 fromNetBSD: 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_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_compat_43_stat 25
#define TARGET_NETBSD_NR_trace 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_getpeermask 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_stat 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_geteuid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending 52
#define TARGET_NETBSD_NR_compat_13_signaltramp 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR___oreboot 55
#define TARGET_NETBSD_NR_getpeername 56
#define TARGET_NETBSD_NR_getsymlink 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_fstat 62
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segeclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_lstat12 189
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR_lseek 199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR___ksem_init 247
#define TARGET_NETBSD_NR___ksem_open 248
#define TARGET_NETBSD_NR___ksem_unlink 249
#define TARGET_NETBSD_NR___ksem_close 250
#define TARGET_NETBSD_NR___ksem_post 251
#define TARGET_NETBSD_NR___ksem_wait 252
#define TARGET_NETBSD_NR___ksem_trywait 253
#define TARGET_NETBSD_NR___ksem_getvalue 254
#define TARGET_NETBSD_NR___ksem_destroy 255
#define TARGET_NETBSD_NR_mq_open 257
#define TARGET_NETBSD_NR_mq_close 258
#define TARGET_NETBSD_NR_mq_unlink 259
#define TARGET_NETBSD_NR_mq_getattr 260
#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify 262
#define TARGET_NETBSD_NR_mq_send 263
#define TARGET_NETBSD_NR_mq_receive 264
#define TARGET_NETBSD_NR_mq_timedsend 265
#define TARGET_NETBSD_NR_mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigsuspend14 292
#define TARGET_NETBSD_NR___sigprocmask14 293
#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn  295
#define TARGET_NETBSD_NR___getcwd     296
#define TARGET_NETBSD_NR_fchroot      297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR_____semctl  301
#define TARGET_NETBSD_NR___msgctl  302
#define TARGET_NETBSD_NR___shmctl  303
#define TARGET_NETBSD_NR_lchflags     304
#define TARGET_NETBSD_NR_issetugid    305
#define TARGET_NETBSD_NR_utrace       306
#define TARGET_NETBSD_NR_getcontext   307
#define TARGET_NETBSD_NR_setcontext   308
#define TARGET_NETBSD_NR__lwp_create   309
#define TARGET_NETBSD_NR__lwp_exit     310
#define TARGET_NETBSD_NR__lwp_self     311
#define TARGET_NETBSD_NR__lwp_wait     312
#define TARGET_NETBSD_NR__lwp_suspend  313
#define TARGET_NETBSD_NR__lwp_continue 314
#define TARGET_NETBSD_NR__lwp_wakeup   315
#define TARGET_NETBSD_NR__lwp_getprivate 316
#define TARGET_NETBSD_NR__lwp_setprivate 317
#define TARGET_NETBSD_NR__lwp_kill     318
#define TARGET_NETBSD_NR__lwp_detach   319
#define TARGET_NETBSD_NR__lwp_park     320
#define TARGET_NETBSD_NR__lwp_unpark   321
#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname  323
#define TARGET_NETBSD_NR__lwp_getname  324
#define TARGET_NETBSD_NR__lwp_ctl      325
#define TARGET_NETBSD_NR_sa_register   330
#define TARGET_NETBSD_NR_sa_stacks     331
#define TARGET_NETBSD_NR_sa_enable     332
#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR_sa_yield      334
#define TARGET_NETBSD_NR_sa_preempt    335
#define TARGET_NETBSD_NR_sa_unblockyield 336
#define TARGET_NETBSD_NR___sigaction_sigtramp 340
#define TARGET_NETBSD_NR_pmc_get_info  341
#define TARGET_NETBSD_NR_pmc_control   342
#define TARGET_NETBSD_NR_rasctl       343
#define TARGET_NETBSD_NR_kqueue       344
#define TARGET_NETBSD_NR_kevent       345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fstatvfs1 359
#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
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_pollts 374
#define TARGET_NETBSD_NR_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR__stat30 387
#define TARGET_NETBSD_NR__fstat30 388
#define TARGET_NETBSD_NR__lstat30 389
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#define TARGET_NETBSD_NR__aio_cancel 399
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#define TARGET_NETBSD_NR__pset_bind 415
#define TARGET_NETBSD_NR___posix_fadvise50 416

/* $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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 * SUCH DAMAGE.
 */
#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 */
/* 11 was EAGAIN */
#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 TARGET_EEXIST 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_ESPIPE 29 /* Illegal seek */
#define TARGET_ERofs 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* 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_ESOCKTNOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EAFNOSUPPORT 45 /* Operation not supported */
#define TARGET_EOPNOTSUPP 46 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 47 /* Protocol family not supported */
#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_EPROCUNAVAIL 66 /* Directory not empty */
#define TARGET_EPROCUNAVAIL 66 /* Directory not empty */

/* 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_EPROGRAMISMATCH 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_ECANCELED 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 */

/* System call numbers. */

#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
#define TARGET_FREEBSD_NR_link        9
#define TARGET_FREEBSD_NR_unlink      10
#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
#define TARGET_FREEBSD_NR_getpid      20
#define TARGET_FREEBSD_NR_mount       21
#define TARGET_FREEBSD_NR_unmount     22
#define TARGET_FREEBSD_NR_setuid      23
#define TARGET_FREEBSD_NR_getuid      24
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#define TARGET_FREEBSD_NR_ptrace      26
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#define TARGET_FREEBSD_NR_recvfrom 29
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#define TARGET_FREEBSD_NR_vfork 66
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#define TARGET_FREEBSD_NR_sstk 70
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#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
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 *
 * @(#)mman.h     8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_NR_openat  499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat  501
#define TARGET_FREEBSD_NR_linkat    502
#define TARGET_FREEBSD_NR_unlinkat  503
#define TARGET_FREEBSD_NR_posix_openpt 504

#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     0x1ff7

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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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@(#)mman.h 8.1 (Berkeley) 6/2/93

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

That's all there is to it!

From: a988f436f785fa9349baf66a0d44e26b94f75af Mon Sep 17 00:00:00 2001
Message-Id: <a988f436f785fa9349baf66a0d44e26b94f75af.1389014116.git.minovotn@redhat.com>
In-Reply-To: <c8cc35838d42aa286242772d97e3a9be7bb786ba.1389014116.git.minovotn@redhat.com>
References: <c8cc35838d42aa286242772d97e3a9be7bb786ba.1389014116.git.minovotn@redhat.com>
From: Paolo Bonzini <pbonzini@redhat.com>
Date: Mon, 9 Dec 2013 14:09:21 +0100
Subject: [PATCH 33/50] block/iscsi: updated copyright

RH-Author: Paolo Bonzini <pbonzini@redhat.com>
Message-id: <1386598178-11845-36-git-send-email-pbonzini@redhat.com>
Patchwork-id: 56072
O-Subject: [RHEL 7.0 qemu-kvm PATCH 35/52] block/iscsi: updated copyright
Bugzilla: 1007815
added myself to reflect recent work on the iscsi block driver.

Signed-off-by: Peter Lieven <pl@kamp.de>
Signed-off-by: Paolo Bonzini <pbonzini@redhat.com>
Signed-off-by: Stefan Hajnoczi <stefanha@redhat.com>
(cherry picked from commit 2af8a1a704a352bab2e9eaf803db0b3552e826d0)
---
block/iscsi.c | 1 +
1 file changed, 1 insertion(+)

Signed-off-by: Michal Novotny <minovotn@redhat.com>
---
block/iscsi.c | 1 +
1 file changed, 1 insertion(+)

diff --git a/block/iscsi.c b/block/iscsi.c
index c5cd86d..7ae61f9 100644
--- a/block/iscsi.c
+++ b/block/iscsi.c
@@ -2,6 +2,7 @@
 * QEMU Block driver for iSCSI images
 *
 * Copyright (c) 2010-2011 Ronnie Sahlberg <ronniesahlberg@gmail.com>
+ * Copyright (c) 2012-2013 Peter Lieven <pl@kamp.de>
 *
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--
1.7.11.7
From 04a8a3d76b171deb5eaf8318591e5cfaea3cc843 Mon Sep 17 00:00:00 2001
From: Eduardo Habkost <ehabkost@redhat.com>
Date: Thu, 23 Feb 2017 14:29:44 +0100
Subject: [PATCH 14/17] target-i386: Loop-based copying and setting/unsetting
of feature words
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

RH-Author: Eduardo Habkost <ehabkost@redhat.com>
Message-id: <20170223142944.17790-14-ehabkost@redhat.com>
Patchwork-id: 74045
O-Subject: [RHEL-7.4 qemu-kvm PATCH v2 13/14] target-i386: Loop-based copying and setting/unsetting of
Now that we have the feature word arrays, we don't need to manually copy each array item, we can simply iterate through each feature word.

Signed-off-by: Eduardo Habkost <ehabkost@redhat.com>
Signed-off-by: Andreas Frber <afaerber@suse.de>
(cherry picked from commit e1c224b4eb3b8693c230bb2762a959ae1f531f76)
Signed-off-by: Eduardo Habkost <ehabkost@redhat.com>
Signed-off-by: Miroslav Rezanina <mrezanin@redhat.com>
---
target-i386/cpu.c | 44 ++++++++++----------------------------------
1 file changed, 10 insertions(+), 34 deletions(-)
diff --git a/target-i386/cpu.c b/target-i386/cpu.c
index d611062..010b95f 100644
--- a/target-i386/cpu.c
+++ b/target-i386/cpu.c
@@ -1755,6 +1755,7 @@ static inline void feat2prop(char *s)
 static void cpu_x86_parse_featurestr(X86CPU *cpu, char *features, Error **errp)
 {
     char *featurestr; /* Single 'key=value' string being parsed */
+    FeatureWord w;
     /* Features to be added */
     FeatureWordArray plus_features = { 0 };
     /* Features to be removed */
@@ -1844,28 +1845,11 @@ static void cpu_x86_parse_featurestr(X86CPU *cpu, char *features, Error **errp)
     }
     featurestr = strtok(NULL, ",");
 }
-    env->features[FEAT_1_EDX] |= plus_features[FEAT_1_EDX];
-    env->features[FEAT_1_ECX] |= plus_features[FEAT_1_ECX];
-    env->features[FEAT_8000_0001_EDX] |= plus_features[FEAT_8000_0001_EDX];
-    env->features[FEAT_8000_0001_ECX] |= plus_features[FEAT_8000_0001_ECX];
-    env->features[FEAT_C000_0001_EDX] |= plus_features[FEAT_C000_0001_EDX];
-    env->features[FEAT_KVM] |= plus_features[FEAT_KVM];
-    env->features[FEAT_SVM] |= plus_features[FEAT_SVM];
-    env->features[FEAT_7_0_EBX] |= plus_features[FEAT_7_0_EBX];
-    env->features[FEAT_7_0_ECX] |= plus_features[FEAT_7_0_ECX];
-    env->features[FEAT_7_0_EDX] |= plus_features[FEAT_7_0_EDX];
-    env->features[FEAT_XSAVE] |= plus_features[FEAT_XSAVE];
-    env->features[FEAT_1_EDX] &= ~minus_features[FEAT_1_EDX];
-    env->features[FEAT_1_ECX] &= ~minus_features[FEAT_1_ECX];
-    env->features[FEAT_8000_0001_EDX] &= ~minus_features[FEAT_8000_0001_EDX];

- env->features[FEAT_8000_0001_ECX] &= ~minus_features[FEAT_8000_0001_ECX];
- env->features[FEAT_C000_0001_EDX] &= ~minus_features[FEAT_C000_0001_EDX];
- env->features[FEAT_KVM] &= ~minus_features[FEAT_KVM];
- env->features[FEAT_SVM] &= ~minus_features[FEAT_SVM];
- env->features[FEATURE_7_0_EBX] &= ~minus_features[FEATURE_7_0_EBX];
- env->features[FEATURE_7_0_ECX] &= ~minus_features[FEATURE_7_0_ECX];
- env->features[FEATURE_7_0_EDX] &= ~minus_features[FEATURE_7_0_EDX];
- env->features[FEATURE_XSAVE] &= ~minus_features[FEATURE_XSAVE];
+
+    for (w = 0; w < FEATURE_WORDS; w++) {
+        env->features[w] |= plus_features[w];
+        env->features[w] &= ~minus_features[w];
+    }

out:
return;

@@ -1974,6 +1958,7 @@ static void cpu_x86_register(X86CPU *cpu, const char *name, Error **errp)
 {
     CPUX86State *env = &cpu->env;
     x86_def_t def1, *def = &def1;
+    FeatureWord w;

     memset(def, 0, sizeof(*def));

@@ -1992,21 +1977,12 @@ static void cpu_x86_register(X86CPU *cpu, const char *name, Error **errp)
         object_property_set_int(OBJECT(cpu), def->family, "family", errp);
         object_property_set_int(OBJECT(cpu), def->model, "model", errp);
         object_property_set_int(OBJECT(cpu), def->stepping, "stepping", errp);
-        env->features[FEATURE_1_EDX] = def->features[FEATURE_1_EDX];
-        env->features[FEATURE_1_ECX] = def->features[FEATURE_1_ECX];
-        env->features[FEATURE_8000_0001_EDX] = def->features[FEATURE_8000_0001_EDX];
-        env->features[FEATURE_8000_0001_ECX] = def->features[FEATURE_8000_0001_ECX];
-        object_property_set_int(OBJECT(cpu), def->xlevel, "xlevel", errp);
-        env->features[FEATURE_KVM] = def->features[FEATURE_KVM];
-        env->features[FEATURE_SVM] = def->features[FEATURE_SVM];
-        env->features[FEATURE_C000_0001_EDX] = def->features[FEATURE_C000_0001_EDX];
-        env->features[FEATURE_7_0_EBX] = def->features[FEATURE_7_0_EBX];
-        env->features[FEATURE_7_0_ECX] = def->features[FEATURE_7_0_ECX];
-        env->features[FEATURE_7_0_EDX] = def->features[FEATURE_7_0_EDX];
-        env->features[FEATURE_XSAVE] = def->features[FEATURE_XSAVE];
+        env->cpuid_xlevel2 = def->xlevel2;
-        object_property_set_str(OBJECT(cpu), def->model_id, "model-id", errp);
+        for (w = 0; w < FEATURE_WORDS; w++) {
+            env->features[w] = def->features[w];
+        }
}
1.399 qrencode 3.4.1 :3.el7
1.399.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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the source code distributed need not include anything that is normally
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which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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1.408 rsync 3.1.2 :4.el7
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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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.

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1.417 sed 4.2.2 :5.el7

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1.435 sudo 1.8.19p2 :14.el7_5

1.435.1 Available under license :

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryninger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
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
Kopect, Daniel
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gabor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédéric
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
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1.437 sysstat 10.1.5 :13.el7

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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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 SYSVREL0

/*
* YPBUGS
  Work around Sun YP bugs that cause expansion of ~username
  * to send command output to /dev/null
*/
#undef YPBUGS

/************************** local defines ********************/
#endif /* _h_config */

1.445 texinfo 5.1 :5.el7
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The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
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replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
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  *
  * A collection of File Manager and related routines
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1.452 usb_modeswitch 2.5.1 :1.el7

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1.457 util-linux 2.23.2 :52.el7_5.1
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Initialize empty image
f1c9645d914efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c20f055067e18f2c9 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d000d1d1c0e5ee45d26 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8def51a88a045db233418dd73f 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

<table>
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<td>a5</td>
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</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsi bsi 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 [fsi bsi cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

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1.459 vim 7.4.160 :4.el7

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Voice phone:    (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
* Vim syntax file
* Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001
if version < 600
" Remove any old syntax stuff hanging around
syn clear
elseif exists("b:current_syntax")
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" 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\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

Open Source Used In Cisco Prime Network Registrar 10.0
4897


" 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,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="\s*all_filessets\s+" contains=psfObjTags psfComment end="$" keepend

syn region psfAttNumber matchgroup=psfAttrib
start="\s*(compressed_size|instance_id|media_sequence_number|sequence_number|size)\s+" contains=psfNumber psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="\s*(create_time|ctime|mod_time|mtime|timestamp)\s+" contains=psfNumber psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="\s*(data_model_revision|layout_version)\s+" contains=psfFloat psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="\s*install_date\s+" contains=psfLongDate psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="\s*(state)\s+" contains=psfState psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="\s*(patch_state)\s+" contains=psfPState psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s+" contains=psfBoolean psfComment end="$" keepend oneline

syn match psfComment ".*$

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
  let did_psf_syntax_inits = 1
  command -nargs=+ HiLink hi link <args>
else
  command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject       Statement
HiLink psfAttrib       Type
HiLink psfQuotString   String
HiLink psfObjTag       Identifier
HiLink psfAttAbbrev    PreProc
HiLink psfObjTags      Identifier

HiLink psfComment      Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*    For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL   by Bram Moolenaar

*uganda*  *Uganda*  *copying*  *copyright*  *license*
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http://www.vim.org/iccf/
http://www.iccf.nl/

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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
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Surrey, B.C. V4N 1Z4
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Phone: 604-581-5353
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vim:tw=78:ts=8:ft=help:norl:

1.460 virt-what 1.18 :4.el7
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/

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1.476 yajl 2.0.4 :4.el7

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1.477 yum 3.4.3 :158.el7.centos
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diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
     A single update notice (for instance, a security fix).

-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from': '',
            'type': '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
            if elem:
                self._parse(elem)

+        self._repoid = repoid
+        self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """Allows scriptable metadata access (ie: un['update_id']).""
+        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
            # Tests to see if it's "the same data", which means that the
            # packages can be different (see add_notice).

+    def _rid(un):
+        if hasattr(un, '_repoid') and un._repoid is not None:
+            return un._repoid
+        else:
+            return '<unknown>'
+
+    def _log_failure(data):
+        """Log the mismatched data similarly to conflict markers in git.""
+        if self._vlogger is None:
+            return
+        msg = _('Duplicate of %s differs in some fields:
')
+        msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+        msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+        msg += '>>>>>>> %s:%s' % (_rid(self), data)
+        # --verbose mode enables this
+        self._vlogger.log(logging.DEBUG_3, msg)
+        if not other or not hasattr(other, '_md'):
+            return False

---
class UpdateNotice(object):
    def __init__(self, elem, repoid, vlogger):
        self._md = elem.attrib
        self.arch_storage = ArchStorage()
        self.archlist = self.arch_storage.archlist

    def __eq__(self, other):
        if self._md != other._md:
            _log_failure('md')
            return False
        if other._md not in ('stable', 'testing'):
            _log_failure('md')
            return False
        self._md['status'] = 'stable'

    def __ne__(self, other):
        if self._md != other._md:
            _log_failure('md')
            return False
        if other._md not in ('stable', 'testing'):
            _log_failure('md')
            return False
        self._md['status'] = 'stable'

    def _log_failure(self, field):
        msg = (_('An update notice\%s is broken, skipping.') % _rid(repoid))
        if self._vlogger:
            self._vlogger.warn(msg)
        continue @

    @@@ -398, 6 +400, 9 @@ class UpdateMetadata(object):
        try:
            un = UpdateNotice(elem)
        except UpdateNoticeException, e:
            msg = (_('An update notice\%s is broken, skipping.') % _rid(repoid))
            if self._vlogger:
                self._vlogger.warn(msg)
            continue # No metadata found for this repo

        if not have_dup:
            msg += (_('You should report this problem to the owner of the %s repository.') % _rid(repoid, "%s "))
            have_dup = True
            self._vlogger.warn("%s", msg)

        if self._vlogger:
            self._vlogger.warn("%s", msg)

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:
        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

import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):
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