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Cisco IOS XE Amsterdam 17.2.1

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   1.356.1 Available under license
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1.3 attr 2.4.47 :r0

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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1.5 augeas 1.10.1 :r0

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
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Version 3.0, 18 August 2009

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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

John

On May 9, 1:36pm, Chet Ramey wrote:
] Subject: ksh scripts
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
the FSF.

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

Chet Ramey

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

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

-- End of excerpt from Chet Ramey

From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
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).

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>))
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
(id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>))
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

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

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

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

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1.11 bash-completion 2.8 :r0

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.14 binutils 2.31.1 :r0

1.15 bison 3.0.4 :r0

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#!/usr/bin/perl -0777 -pi

# Update b4_copyright invocations or b4_copyright_years definitions to include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
( (?:|^)[u]
  #BEFORE
  (?:
    b4_copyright(\[[^\[]*\]]
    \s* m4_(?:push|pop)def(\[b4_copyright_years
  )
  #AFTER
  )
  (?:
    \s*
    (\d{4}(?:,\s*|-)*)\s*(\d{4})\s*
  )
)?
EOF
;

while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ')';
    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ',';
        if ($final_year != $this_year)
        {
            # Update the year.
            $year_lines =~ s/$final_year/$final_year,$this_year/;
        }
    }
}
# Normalize all whitespace.
$year_lines =~ s/\s+/ /g;

# Put spaces after commas.
$year_lines =~ s/, ?/, /g;

# Compress to intervals.
$year_lines =~ s/(\d{4})(?:(?:, |-)((??{
    if    ($2 eq '-') { \d{4}; }  
    elsif (!$3)       { $1 + 1;  }  
    else              { $3 + 1;  }  
  })))+/\1-$3/gx;

# Format within margin.
my $year_lines_new;
my $indent = index ($b4_copyright_line, '[');
--$indent if ($b4_copyright_line =~ m/^
/);
while (length $year_lines)
{
    my $text_margin = $margin - $indent;
    if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//) || ($year_lines =~ s/^([\S]+)(?: |$)//))
    {
        my $line = "\n" . (' 'x$indent) . $1;
        ++$indent if (!$year_lines_new);
        $year_lines_new .= $line;
    } else
    {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
    }
}

# Replace the old invocation. Should never die.
die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
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1.18 boost 1.68.0 :r0
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 *
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* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << "">"" << p.file.string() << "";""
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();
    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();
std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output."
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</title>\n"
"</head>
"</body>
"<H2>Contents</H2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
os << " <a href="#summary">Licence Summary</a>
os << " <a href="#details">Licence Details</a>
while(i != j)
{
    // title:
    os << " <A href=""#"" <a href="#input">Input Information</a>"
    " <a href="#summary">Licence Summary</a>"
    " <a href="#details">Licence Details</a>
    os << " <a href="#files">Files with no recognised license</a>
    " <a href="#authors">Files with no recognised copyright holder</a>
    if(!m_bsl_summary_mode)
    {
"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 << "\n"
"File Dependency Information</a>\n"
"</pre>";

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

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

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

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

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  //
  // start with the summary:
  //
os << "<a name="summary"></a><h2>Licence Summary</h2><br/>
while(i != j)
{
  // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3><br/>
  // 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><br/>
  ++i;
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2><br/>
while(i != j)
{
  // title:
os << "<H3><A name="#" make_link_target(licenses.first[i->first].license_name)></a>" << licenses.first[i->first].license_name << "</H3><br/>
  // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:</P><BR/>
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
}
os << *x << "<BR>\n";
++x;
}

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

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

files:</P>\n<BLOCKQUOTE><P>

std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}

os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"

"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}

os << "</P></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"

"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    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>\n"
    "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
in_file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
    "<tt><br>\n<table border=\"1\">\n <tr><td><pre>" << i->second.first << "</pre></td>\n <td><pre>
 << i->second.second << "</pre></td>\n <tr><table><\n";
    ++i;
    ++file_num;
}
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>\n"
    "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:"<<endp></p><BLOCKQUOTE></p>";
    i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n"
    ++i2;
}
os << "</p></BLOCKQUOTE>";
// Output list of files that can not be moved over to the Boost Software License
//
// os << "<h2><a name="not-to-bsl"></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><blockquote><p>

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  ++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 &lt;code&gt;more/blanket-permission.txt&lt;/code&gt;.&lt;/p&gt;&lt;blockquote&gt;&lt;p&gt;

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
  std::ostream_iterator<std::string>(os, "<br>"));
os << "</p></blockquote>"

// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</h2><table border="1">";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
eas = m_author_data.end();
while(ad != ead)
{
os << "<tr><td>" << ad->first << "</td></tr>";
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>";
  ++ad;
}
os << "</table>";


// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();

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


os << " <I>(Circular dependency!)</I>
break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

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);
}

[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]<!DOCTYPE html>
<html>
<head></head>
<body>
<h3>
Copyright Test
</h3>
<p class="copyright">
1963, 1964, 1965 Jane Doe
</p>
<p class="copyright">
2018 Joe Blow, John Coe
</p>
<p class="copyright">
1977, 1985 Someone else
</p>
</body>
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

Copyright:

/**
 * Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
 */

This is Release 2.4 of Jam/MR, a make-like program.

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

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ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

ifndef BOOST_CONFIG_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifdef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/config.hpp>
#endif

#ifdef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#ifdef(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif
#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
    namespace intrusive {
        namespace detail {
            using boost::move_detail::is_same;
            using boost::move_detail::add_const;
            using boost::move_detail::remove_const;
            using boost::move_detail::remove_cv;
            using boost::move_detail::remove_reference;
            using boost::move_detail::add_reference;
            using boost::move_detail::remove_pointer;
            using boost::move_detail::add_pointer;
            using boost::move_detail::true_type;
            using boost::move_detail::false_type;
            using boost::move_detail::enable_if_c;
            using boost::move_detail::enable_if;
            using boost::move_detail::disable_if_c;
            using boost::move_detail::disable_if;
            using boost::move_detail::is_convertible;
            using boost::move_detail::if_c;
            using boost::move_detail::if_;  
            using boost::move_detail::is_const;
            using boost::move_detail::identity;
            using boost::move_detail::alignment_of;
            using boost::move_detail::is_empty;
            using boost::move_detail::addressof;
            using boost::move_detail::integral_constant;
            using boost::move_detail::enable_if_convertible;
            using boost::move_detail::disable_if_convertible;
            using boost::move_detail::bool_;  
            using boost::move_detail::true_;  
            using boost::move_detail::false_;  
            using boost::move_detail::yes_type;
            using boost::move_detail::no_type;
            using boost::move_detail::apply;
            using boost::move_detail::eval_if_c;
            using boost::move_detail::eval_if;
            using boost::move_detail::unvoid_ref;
            using boost::move_detail::add_const_if_c;

            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);
            }
        } // namespace intrusive
    } // namespace boost
} // namespace Open Source Used In XE-Linux SDK  Cisco IOS XE Amsterdam 17.2.1
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template <>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

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

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T>                                          \
    struct boost_intrusive_has_type_ ## TNAME                      \
    {
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        \
        template <typename X>                                       \
        static int test(...);                                       \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
    };                                                             \

    template <typename T, typename DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                  \
    {
        struct DefaultWrap { typedef DefaultType TNAME; };          \
        \
        typedef typename                                            \
        ::boost::intrusive::detail::if_c                         \
        < boost_intrusive_has_type_ ## TNAME<T>::value        \
        , T, DefaultWrap>::type::TNAME type;                  \
    };                                                             \

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   \
    typename INSTANTIATION_NS_PREFIX                                                       \
    boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type                            \

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  \
    INSTANTIATION_NS_PREFIX
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
  template<typename T, typename DefaultType>
  struct boost_intrusive_eval_default_type_##TNAME
  {
    template<typename X>
    static char test(int, typename X::TNAME*);
    
    template<typename X>
    static int test(...);
    
    struct DefaultWrap
    {
      typedef typename DefaultType::type TNAME;
    };
    
    static const bool value = (1 == sizeof(test<T>(0, 0)));
    
    typedef typename
      ::boost::intrusive::detail::eval_if_c
    < value
      , ::boost::intrusive::detail::identity<T> 
      , ::boost::intrusive::detail::identity<DefaultWrap> 
    >::type::TNAME type;
  };

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)
  typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_##TNAME<T, TIMPL>::type

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)
  template<typename T>
  struct TRAITS_PREFIX##_bool
  {
    template<bool Add>
    struct two_or_three {yes_type _[2 + Add];};
    template<typename U> static yes_type test(...);
    template<typename U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
  };

  template<typename T>
  struct TRAITS_PREFIX##_bool_is_true
  {
    
    template<typename Add>
    struct two_or_three {yes_type _[2 + Add];};
    template<typename U> static yes_type test(...);
    template<typename U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
  };

  template<typename T>
  struct TRAITS_PREFIX##_bool_is_true
  {
static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;

//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    template <typename U, typename Signature> \
    class TRAITS_NAME \
    { \
    private: \
    template<Signature> struct helper; \
    template<typename T> \
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
    template<typename T> static ::boost::intrusive::detail::no_type test(...); \
    public: \
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
    }; \

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    { \
    struct BaseMixin \
    { \
    void FUNC_NAME(); \
    }; \
    struct Base : public Type, public BaseMixin { Base(); }; \
    template <typename T, T t> class Helper{}; \
    template <typename U> \
    static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
    static ::boost::intrusive::detail::yes_type test(...); \
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
    }; \

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
    \
    template <typename Type, class> \
    struct TRAITS_NAME \
    : public TRAITS_NAME##_ignore_signature<Type> \
    { };

//namespace detail

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

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

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

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstdint>
namespace boost {
  namespace container {
    namespace dtl {

      using boost::move_detail::integral_constant;
      using boost::move_detail::true_type;
      using boost::move_detail::false_type;
      using boost::move_detail::enable_if_c;
      using boost::move_detail::enable_if;
      using boost::move_detail::enable_if_convertible;
      using boost::move_detail::disable_if_c;
      using boost::move_detail::disable_if;
    }
  }
}

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using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::identity;
using boost::move_detail::bool_
using boost::move_detail::true_
using boost::move_detail::false_
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_
using boost::move_detail::true_
using boost::move_detail::false_
using boost::move_detail::false_
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_
using boost::move_detail::or_
using boost::move_detail::not_
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first;  }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first);  }
};

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};
template <typename C, typename K, typename R>
struct enable_if_transparent
  : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};

} //namespace dtl {
} //namespace container {
} //namespace boost {
#include <boost/container/detail/config_end.hpp>
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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// ///////////////////////////////////////////////////////////////////////////
#if defined(BOOST_INTERPROCESS_DETAIL_MPL_HPP)
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if defined(BOOST_CONFIG_HPP)
    # include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
    #pragma once
#endif
#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {
    template <class T, T val>
    struct integral_constant{
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

        }
    }
}

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<
  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<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;
};
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Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larshj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
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Samuel Kremp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
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<link rel="stylesheet" href="../static/pygments.css" type="text/css"/>
<script type="text/javascript">
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<link rel="search" title="Search" href="../search.html"/>
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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title><no title> &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
<link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {

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Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](../../../../libs/mpl/doc/refmanual/integral-constant.html). Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

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```python
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
```
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^\s*\(c\)\s*?copyright\s*\(c\)\s*\d{4}\s*e?\d{4}\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]
print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

http_parser.c is based on src/http/ngx_http_parse.c from NGINX copyright
Igor Sysoev.

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<?xml version="1.0" encoding="utf-8"?>
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The header `\texttt{<boost/mp11/mpl.hpp>` defines the necessary support infrastructure for `\texttt{mp_list}` and `\texttt{std::tuple}` to be valid.

\textbf{NOTE:} `\texttt{mpl.hpp}` is not included by `\texttt{<boost/mp11.hpp>`.

---

```cpp
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t { }; 
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>; 

int main() { } 
```

---

```cpp
#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; }; 
struct state { }; 

template <int i>
struct t { }; 
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>; 
using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;
```
int main() { }
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t {

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>"})) %>;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }

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$(window).load(resizeHeight);
</script>

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<script type="text/javascript">
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    extensions: ["tex2jax.js"],
    jax: ["input/TeX","output/HTML-CSS"],
});
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Adapters for Boost.MPL containers.

- **boost::mpl::integral_c< T, v >**
  - **Description**: Adapter for IntegralConstants from the Boost.MPL.
  - [More...](#details)

- **boost::mpl::list< T >**
  - **Description**: Adapter for Boost.MPL lists.
  - [More...](#details)

- **boost::mpl::vector< T >**
  - **Description**: Adapter for Boost.MPL vectors.
  - [More...](#details)
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1.21 busybox 1.29.3 :r0

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

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1.25 cairo 1.14.12 :r0

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StartChar: copyright
Encoding: 169 169 102
GlifName: copyright
Width: 869
Flags: HMW
LayerCount: 2
Back
SplineSet
548 524 m 2
564 517 l 1
537 439 l 1
518 446 l 1
495 454 473 458 449 458 c 0
371 458 351 408 351 353 c 0
351 294 372 238 455 238 c 0
475 238 495 242 515 249 c 2
533 255 l 1
561 179 l 1
543 172 l 2
509 159 474 152 437 152 c 0
355 152 255 195 255 343 c 0
255 496 355 547 442 547 c 0
479 547 515 539 548 524 c 2
430 602 m 0
284 602 171 484 171 347 c 0
171 210 284 93 430 93 c 0
576 93 688 210 688 347 c 0
688 484 576 602 430 602 c 0
792 347 m 3
792 347 600 614 436 614 c 3
270 614 151 499 151 334 c 259
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* [Stephan Gatzka](https://github.com/gatzka)
* [Weston Schmidt](https://github.com/schmidtw)
* [yangfl](https://github.com/yangfl)
* [yuta-oxo](https://github.com/yuta-oxo)
* [Zach Hindes](https://github.com/zhindes)
* [Zhao Zhixu](https://github.com/zhaozhixu)

And probably more people on [SourceForge](https://sourceforge.net/p/cjson/bugs/search/?q=status%3Aclosed-rejected+or+status%3Aclosed-out-of-date+or+status%3Awont-fix+or+status%3Aclosed-fixed+or+status%3Aclosed&page=0)

Also thanks to all the people who reported bugs and suggested new features.

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1.30 compiler-rt 4.0.0 :r0

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<h2>People</h2>

<h3>Raghesh Aloor</h3>
<p>Raghesh works on OpenMP code generation. He is funded as Google Summer of Code Student 2011.</p>

<h3>Johannes Doerfert</h3>
<p>Johannes works on Polly as part of his PhD research at Saarland University in Germany.</p>

<h3>Tobias Grosser</h3>
<p>Tobias is one of the two Co-founders of Polly. He designed the overall architecture and contributed to almost every part of Polly. Polly was started during his diploma studies at University of Passau. Furthermore, he spent 6 months at Ohio State University (funded by the U.S. National Science Foundation through awards 0811781 and 0926688). From August 2011 he works on Polly, during his PhD with INRIA/UMPC/ENS (funded through a Google Europe Fellowship in Efficient Computing). </p>

<p>Website: <a href="http://www.grosser.es">www.grosser.es</a></p>

<h3>Andreas Simbürger</h3>
<p>Andreas works on the profiling infrastructure during his PhD at University of Passau.</p>

<p>Website: <a href="http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/">http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/</a></p>

<h3>Hongbin Zheng</h3>
<p>Hongbin Zheng is one of the two Co-founders of Polly. He was funded as a
Google Summer of Code Student 2010 and implemented parts of the Polly frontends as well as the automake/cmake infrastructure.

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<tr>
<td>getopt_port</td>
<td>include-what-you-use/iwyu_getopt.*</td>
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</tbody>
</table>

@protocol NSObject
@end
@interface NSObject : NSObject
@end

static NSString *_logProcessPrefix = 0;

void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@implementation NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {
    __setRetained(&_logProcessPrefix, processPrefix, &_logProcessPrefix);
}
@end

@class Derived;

NSObject *ExternFunc (NSObject *filePath,NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);

@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument
    // types).
    // Since registerFunc: expects a Derived object as its second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc];  // expected-warning{{incompatible pointer types sending 'NSObject
    *(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

// rdar://10751015
@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying cannot not be confirmed}}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {

    [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type
    'id<NSCopying>'}}

    id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of
    incompatible type 'ForwarClass *'}}

    return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type
    'ForwarClass *'}}
}

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Software.
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }  
%union.anon.0 = type { i8* }  

define hidden fastcc void @fred() unnamed_addr #0 {  
  entry:  
  br i1 undef, label %while.end, label %while.body.lr.ph  
  while.body.lr.ph: ; preds = %entry  
  br label %while.body  
  while.body: ; preds = %exit.2, %while.body.lr.ph  
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]  
  switch i32 undef, label %exit [  
    i32 1, label %sw.bb.i  
    i32 2, label %sw.bb3.i  
  ]  
  sw.bb.i: ; preds = %while.body  
  unreachable  
  sw.bb3.i: ; preds = %while.body  
  unreachable  
  exit: ; preds = %while.body  
  switch i32 undef, label %exit.2 [  
    i32 1, label %sw.bb.i17  
    i32 2, label %sw.bb3.i20  
  ]  
  sw.bb.i17: ; preds = %exit  
  %0 = bitcast %struct.0* %lsr.iv to i32*  
  %1 = load i32, i32* %0, align 4  
  unreachable  
  sw.bb3.i20: ; preds = %exit  
  %2 = bitcast %struct.0* %lsr.iv to i8**  
  %3 = load i8*, i8** %2, align 4  
  unreachable  
  exit.2: ; preds = %exit  
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1  
  br label %while.body  
  while.end: ; preds = %entry  
  ret void  
}  

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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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.

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

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

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

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

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1.35 cracklib 2.9.5 :r0
1.35.1 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 didn't notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't 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.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Devin
--
If it's sinful, it's more fun.

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

I'd also suggest the LGPL, for the reason you noted above. Alternately,GPLv2 with the option of using the library under a later version of theGPL would permit applications which were released under version 3 of theGPL to use the library, too, which would be sufficient for the packageswhich 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
Open Source Used In XE-Linux SDK  Cisco IOS XE Amsterdam 17.2.1

>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
>> I am sympathetic. Guys, what do you reckon?
>
>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL....
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

-mike

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
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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)
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Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
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-a

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## libcurl
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1.43 devmem2 1.0 :r7

1.44 dhcp 4.4.1 :r0

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da3082228d796df35f98d787c5cfff2bb5b6.

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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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "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
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work) run the object code and to modify the work, including scripts to
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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,
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Version 2, June 1991

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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Go support for Protocol Buffers - Google's data interchange format

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1.49 dosfstools 4.1 :r0

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1.50 dtc 1.4.7 :r0

1.51 e2fsprogs

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$( BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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

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

<program>  Copyright (C) <year>  <name of author>
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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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Finally, any free program is threatened constantly by software
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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.

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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.

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

That's all there is to it!
1.64 gcc 8.2.0 :r0
1.64.1 Available under license:

#!/usr/bin/python
#
# Copyright (C) 2013-2018 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.py --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.py --this-year libitm
#
# would run the script on just libitm/.
#
# 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*au*ar.m4',
'lt*version.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkeinstalldirs',
'move-if-change',
'shlibpath.m4',
'symmlink-tree',
'ylwrap',

'gnu.texi',
'funding.texi',
'appendix_free.xml',

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

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    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]\([-0-9,\s]+[0-9]+\)*[0-9-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w\s-*'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|\w\s-' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile('Copyright(C)?', re.compile('[0-9]+')
            # 1: 'Copyright (C)', etc.
            '[Cc]opyright\s+t\s+\([Cc]\)\s+
            '[Cc]opyright\s+\%\s+
            '[Cc]opyrights++\&copy;
            '[Cc]opyrights++\@copyright{}'
            '[copyright = \w"'
            '@set\s+\@copyright\s+\w-1\]+'
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*(?:' + ranges + ')?
  @value\{[^{}]*\})\s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s+name + '(\s+\s+?name + ')\s*)'

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

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

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

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

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

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

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

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)
    return year

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

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

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

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line
def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname, 'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
                # If the next line doesn't look like a proper continuation,
                # assume that what we've got is complete.
                continuation = self.strip_continuation(next_line)
                if not self.continuation_re.match(continuation):
                    break

                # Merge the lines for matching purposes.
                orig_line += next_line
                line = line.rstrip() + continuation
                next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match(line, match.start())
            assert match

            holder = match.group(4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + 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() + '

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    mode = None
    with open(pathname, 'r') as file:
        prev = None
        mode = os.fstat(file.fileno()).st_mode
        for line in file:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match(line)):
                match = self.copyright_re.search(line)
                if match:
                    res = self.update_copyright(dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search(line):
                self.errors.report(pathname,
                                   'unrecognised copyright: %s'
                                   % line.strip())
                lines.append(line)
                line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open(tmp_pathname, 'w') as file:
            for line in lines:
                file.write(line)
            os.fchmod(file.fileno(), mode)
        if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

            # Handled separately.
            'testsuite',
        ])

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

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

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

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_extensions |= set (]
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.',
    '.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
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        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 LibStdCxxFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set (]
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
    ])

    self.skip_dirs |= set (]
        # Contains automatically-generated sources.
        'html',

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    ])

    self.own_files |= set (]
        # Contains markup around the copyright owner.
        'spine.xml',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

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

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('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_package_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.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libobjc')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
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<thead>
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<th>Program</th>
<th>Directory</th>
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<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
<tr>
<td>@ignore</td>
<td></td>
</tr>
<tr>
<td>@c Set file name and title for man page.</td>
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</tr>
<tr>
<td>@setfilename gpl</td>
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</tr>
<tr>
<td>@settitle GNU General Public License</td>
<td></td>
</tr>
<tr>
<td>@c man begin SEEALSO</td>
<td></td>
</tr>
<tr>
<td>gfdl(7), fsf-funding(7).</td>
<td></td>
</tr>
<tr>
<td>@c man end</td>
<td></td>
</tr>
<tr>
<td>@c man begin COPYRIGHT</td>
<td></td>
</tr>
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</table>

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@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
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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.

@item
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@end enumerate

@end heading

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@c man end
Automatica generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " 
.de Sp 
Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. 
.de Vb 
Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve 
End verbatim text
.ft R
.fi
\" Set up some character translations and predefined strings. \"(-- will
\" give an unbreakable dash, \"(PI will give pi, \"(L" will give a left
\" double quote, and \"(R" will give a right double quote. \"(C+ will
\" give a nicer C++. Capital omega is used to do unbreakable dashes and
\" therefore won’t be available. \"(C– and \"(C’ expand to ‘’ in nroff,
\" nothing in troff, for use with C<<.
\tr \"(W-
\ds C+ C\v'-1\v’h’-1p’u’-2\v’h’-1p’+\s0\v’.1\v’h’-1p’
\ie \n \\
. ds -- \"(W-
. ds PI pi
. if \(\(\(\h = 4u)&(1m = 24u) .ds -- \"(W\h’-12u\h’-8u\v’.1\v’h’-1p’
\ie \n \\
. ds -- \(\esem
. ds PI \"(p
. ds L’ ‘’
. ds R’ ‘’
. ds C’ ‘’
. ds C’
\br}
\es\n
\" Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(\g .ds Aq \(aq
\el .ds Aq ‘
\" If the F register is >0, we’ll generate index entries on stderr for
\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
\" entries marked with X<> in POD. Of course, you’ll have to process the
\" output yourself in some meaningful fashion.
\" Avoid warning from groff about undefined register 'F'.
\de IX
.. 
. if \!nF .nr F 0
. if \!nF>0 \\
. de IX
. tm Index:\$1\v\n%4t\"\$2"
.. 
. if \!nF==2 \\
. \n % 0
. \n F 2
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

' fudge factors for nroff and troff
.if n \{
   ds #H 0
   ds #V .8m
   ds #F .3m
   ds #[ \&
   ds #] \&
.
      "" simple accents for nroff and troff
.if n \{
   ds ` \&
   ds ` \&
   ds ^ \&
   ds . \&
   ds ~ ~
   ds /
.
      " troff and (daisy-wheel) nроff accents
.ds : \k:\h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'
.ds ` \k:\h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'
.ds ^ \k:\h'-(\n(.wu*10/11-\(#H)\\n\h'.\\n\u'
.ds , \k:\h'-(\n(.wu*8/10)'\\n\h'.\\n\u'
.ds ~ \k:\h'-(\n(.wu*8/10)'\\n\h'.\\n\u'
.ds / \k:\h'-(\n(.wu*8/10)'\\n\h'.\\n\u'
.
      " corrections for vroff
.ds : \k:\h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'
.ds 8 \h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'
.ds o \k:\h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'
.ds d- \h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'
.ds D- \h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'
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.ds ae \h'-(\n(.wu*8/10-\(#H)\\n\h'.\\n\u'

' corrections for vroff
For low resolution devices (crt and lpr)

    " for low resolution devices (crt and lpr)

{               
    ds : e
    ds 8 ss
    ds o a
    ds d- d\h'-1\(ga
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    ds th \o'bp'
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" ========================================================================
"
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
" For nroff, turn off justification. Always turn off hyphenation; it makes
" way too many mistakes in technical documents.
.if n .ad 1
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.IX Subsection "GNU General Public License"
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/* This was suggested, but it shouldn’t be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) 
fprintf (FILE, "t.space " HOST_WIDE_INT_PRINT_UNSIGNED"u", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u
", (int)(ROUNDED)))

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

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

#define ASM_OUTPUT_ALIGN(FILE, LOG) 
if ((LOG)!=0) fprintf ((FILE), "t.align %d\u", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name`. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "\%s\%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX " _"

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

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

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

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

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@end smallexample

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```verbatim
@smallexample
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

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/* Native-dependent code for x86 BSD's.

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 ifndef X86_BSD_NAT_H
 define X86_BSD_NAT_H

 include "x86-nat.h"

 /* Low level x86 XSAVE info. */
 extern size_t x86bsd_xsave_len;

 /* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
  using base_class = x86_nat_target<BaseTarget>;

 public:
 ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
   base_class::mourn_inferior ();
 }
/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
    int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
    int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
  public:
  void fetch_registers (struct regcache *regcache, int regnum) override
  { i386bsd_fetch_inferior_registers (regcache, regnum); }

  void store_registers (struct regcache *regcache, int regnum) override
  { i386bsd_store_inferior_registers (regcache, regnum); }
};

#ifdef I386_BSD_NAT_H
#else
#endif /* I386_BSD_NAT_H */

#!/usr/bin/env python
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.

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

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

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

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

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

    fd = open(filename)

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

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

update_list = get_update_list()
update_files(update_list)

# Remind the user that some files need to be updated by HAND...

if MULTIPLE_COPYRIGHT_HEADERS:
    print
    print("033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:" 
          "033[0m")
    for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print " ", filename

if BY_HAND:
    print
    print "033[31mREMINDER: The following files must be updated by hand." 
          "033[0m"
    for filename in BY_HAND:
        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/nat/glibc_thread_db.h',
                 'gdb/CONTRIBUTE',
                 'gdb/gnulib/import')

# 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 = (  
    # Nothing at the moment :-).  
)

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

# The list of file which have a copyright, but not head by the FSF.  
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb.gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
    "sim/arm/arminit.c",  
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
    "sim/common/cgen-accfp.c",  
    "sim/mips/m16run.c", "sim/mips/sim-main.c",  
    "sim/moxie/moxie-gdb.dts",  
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-insn.h",  
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",  
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",  
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",  
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",  
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",  
    "sim/ppc/hw_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",  
)
if __name__ == "__main__":
    main()

/* Native-dependent code for modern AMD64 BSD's.

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
   int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
   int regnum);

/* A prototype *BSD/AMD64 target. */
template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
   void fetch_registers (struct regcache *regcache, int regnum) override
   { amd64bsd_fetch_inferior_registers (regcache, regnum); } 

   void store_registers (struct regcache *regcache, int regnum) override
   { amd64bsd_store_inferior_registers (regcache, regnum); } 
};

#endif /* i386-bsd-nat.h */

/* BSD Kernel Data Access Library (libkvm) interface.

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
 register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
target currently doesn't export any view of the running processes,
so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static const target_info bsd_kvm_target_info = {
  "kvm",
  N_("Kernel memory interface"),
  N_("Use a kernel virtual memory image as a target.
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public target_ops
{
public:
  bsd_kvm_target ()
  { this->to_stratum = process_stratum; }

  const target_info &info () const override
  { return bsd_kvm_target_info; }

  void close () override;

  void fetch_registers (struct regcache *, int) override;
  enum target_xfer_status xfer_partial (enum target_object object,
    const char *annex,
    gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len,
    ULONGEST *xfered_len) override;

  void files_info () override;
  bool thread_alive (ptid_t ptid) override;
  const char *pid_to_str (ptid_t) override;

  bool has_memory () override { return true; }
  bool has_stack () override { return true; }
  bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void 
bsd_kvm_target_open (const char *arg, int from_tty)
{
  char errbuf[_POSIX2_LINE_MAX];
  char *execfile = NULL;
kvm_t *temp_kd;
char *filename = NULL;

target_preopen (from_tty);

if (arg)
{
    char *temp;

    filename = tilde_expand (arg);
    if (filename[0] != '/')
    {
        temp = concat (current_directory, "/", filename, (char *)NULL);
        xfree (filename);
        filename = temp;
    }
}

execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
    write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error ("%s"), errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning ("%s", kvm_geterr(core_kd));
        core_kd = NULL;
    }
}
inferior_ptid = null_ptid;
discard_all_inferiors();

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        case TARGET_OBJECT_MEMORY:
        {
            LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
                return TARGET_XFER_EOF;
            else
            {
                *xfered_len = (ULONGEST) ret;
                return TARGET_XFER_OK;
            }
        }
    }
    default:
    return TARGET_XFER_E_IO;
}

void
bsd_kvm_target::files_info ()
{
if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
  printf_filtered ((_("Using the kernel crash dump %s\n"),
      bsd_kvm_corefile);
else
  printf_filtered ((_("Using the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
  struct pcb pcb;

  if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
    error (("%s"), kvm_geterr (core_kd));

gdb_assert (bsd_kvm_supply_pcb);
return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
  struct nlist nl[2];

  if (bsd_kvm_paddr)
  {
    bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
    return;
  }

  /* On dumping core, BSD kernels store the faulting context (PCB)
   * in the variable "dumppcb". */
  memset (nl, 0, sizeof nl);
  nl[0].n_name = "_dumppcb";

  if (kvm_nlist (core_kd, nl) == -1)
    error (("%s"), kvm_geterr (core_kd));

  if (nl[0].n_value != 0)
  {
    /* Found dumppcb. If it contains a valid context, return
     * immediately. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
      return;
  }
 /* Traditional BSD kernels have a process proc0 that should always be present. The address of proc0's PCB is stored in the variable "proc0paddr". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
 error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
 struct pcb *paddr;

 /* Found proc0paddr. */
 if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

 bsd_kvm_fetch_pcb (regcache, paddr);
 return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
 /* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer lives in `struct proc' but in `struct thread'. The `struct thread' for the initial thread for proc0 can be found in the variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
 error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
 struct pcb *paddr;

 /* Found thread0. */
 nl[0].n_value += offsetof (struct thread, td_pcb);
 if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

 bsd_kvm_fetch_pcb (regcache, paddr);
 return;
}
#endif
/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
        error (_("No kernel memory image.")));;

    addr = parse_and_eval_address (arg);
    #ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
    #else
    addr += offsetof (struct proc, p_addr);
    #endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error (("%s"), kvm_geterr (core_kd));

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
if (arg == NULL)
    /* i18n: PCB == "Process Control Block". */
    error_no_arg (_("pcb address"));

if (core_kd == NULL)
    error (_("No kernel memory image."));

bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
  register CUPPLY_PCB as the architecture-specific process control
  block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, 
    _('Generic command for manipulating the kernel memory interface.')),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifdef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
        _("Set current context from proc address")), &bsd_kvm_cmdlist);
add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
     /* i18n: PCB == "Process Control Block". */
     _("Set current context from pcb address"), &bsd_kvm_cmdlist);

/* Some notes on the ptid usage on this target.

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:
ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

bsd_kvm_ptid = ptid_t (1, 1, 0);
}
printf " printf_filtered ("\";
for (i = 1; i < NF; i++)
printf "\%s\"", $i;
    printf "\%s\n\"", $NF;
}
}

END
print "\"
print 
print "static void"
print "show_warranty_command (const char *ignore, int from_tty)"
print "\{";
}
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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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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>

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

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

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

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

That's all there is to it!

1.66 gdbm 1.18 :r0

1.66.1 Available under license :

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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.

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

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

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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.

2. Basic Permissions.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

6. Conveying Non-Source Forms.

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

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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

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

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1.70 glibc 2.28 :r0

1.70.1 Available under license:

From 18fe4a6172c58fe863fe388745c78ec642c2c6fe Mon Sep 17 00:00:00 2001
From: Serhii Popovych <spopovyc@cisco.com>
Date: Fri, 23 Sep 2016 23:00:43 -0700
Subject: [PATCH] glibc: Do not build BSD kernels compatibility functions

They are failing stubs anyway and may cause various build time issues (e.g. libopenbsd-compat.so from bino/contrib/openssh linking failures due to multiple setlogin() definitions).

Following functions are not in glibc with this patch:

chflags
fchflags
lchmod
revoke
setlogin

Signed-off-by: Serhii Popovych <spopovyc@cisco.com>

---

io/Makefile    | 2 +- 
login/Makefile | 2 +- 
misc/Makefile  | 3 ++-- 
3 files changed, 3 insertions(+), 4 deletions(-)

diff --git a/io/Makefile b/io/Makefile
index ec5c6d7a2fb8..fc069a560 100644
--- a/io/Makefile
+++ b/io/Makefile
@@ -36,7 +36,7 @@ routines :=
 fxstatat fxstatat64
 statfs fstatfs statfs64 fstatfs64
 statvfs fstatvfs statvfs64 fstatvfs64
-umask chmod fchmod lchmod fchmodat
+umask chmod fchmod lchmod fchmodat
 mkdir mkdirat

open open_2 open64 open64_2 openat openat_2 openat64 openat64_2
read write lseek lseek64 access euidaccess faccessat

diff --git a/login/Makefile b/login/Makefile
index 8b31991be835..2cd1384c6e01 100644
--- a/login/Makefile
+++ b/login/Makefile

1.71 gmp 6.1.2 :r0
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1.72 gnome-desktop-testing 2014.1 :r1

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* A reminder:

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Please use your full legal name (in ASCII characters) as the subject line of the message.

---------------------------------------------------------------------
REQUEST: SEND FORM FOR CHANGES ALREADY MADE

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]
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[Please write your email address here.]

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[Which files have you changed so far, and which new files have you written so far?]
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[Please write your snail address here.]
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[Please write your email address here.]

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[Which files have you changed so far, and which new files have you written so far?]

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Version 3, 29 June 2007

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@subheading END OF TERMS AND CONDITIONS

@page
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@end iftex
@ifinfo
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@ifinfo
@end ifinfo
@page
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end smallexample

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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)
Description:
Provide the GNU Lesser General Public License version 2.1 in Texinfo format.

Files:
doc/lgpl-2.1.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL
Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
Description:
Update an FSF copyright year list to include the current year.

Files:
build-aux/update-copyright

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
GPLed build tool

Maintainer:
Jim Meyering
Description:
Provide the GNU General Public License version 3.0 in Texinfo format.

Files:
doc/gpl-3.0.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text
Maintainer:
all
Description:
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Files:
doc/lgpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdlib
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

License:
LGPLv2+

Maintainer:
all
Description:
Provide the GNU Affero General Public License version 3.0 in Texinfo format.

Files:
doc/agpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
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Maintainer:
all
Description:
Provide the GNU Free Documentation License version 1.3 in Texinfo format.

Files:
doc/fdl-1.3.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4
Depends-on:
  unistd
  strdup  [test $REPLACE_GETCWD = 1]

configure.ac:
  gl_FUNC_GETCWD_LGPL
  if test $REPLACE_GETCWD = 1; then
    AC_LIBOBJ([getcwd-lgpl])
  fi
  gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
  <unistd.h>

License:
  LGPLv2+

Maintainer:
  Eric Blake
Description:
  Provide the GNU General Public License version 2.0 in Texinfo format.

Files:
  doc/gpl-2.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
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Maintainer:
  all
Description:
  Extract specific portions of filenames.

Files:
  lib/direname.h
  lib/direname-lgpl.c
  lib/basename-lgpl.c
lib/stripslash.c
m4/dirmname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake
Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same-inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])
Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir=$(abs_aux_dir)
Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
   AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff
Description:
realpath, canonical_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
errno           [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat           [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloca         [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove         [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax         [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink        [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat        [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:
  gl_CANONICALIZE_LGPL
  if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
    AC_LIBOBJ([canonicalize-lgpl])
  fi
  gl_MODULE_INDICATOR([canonicalize-lgpl])
  gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
  gl_STDLIB_MODULE_INDICATOR([realpath])

Makefile.am:

  Include:
  <stdlib.h>
  License:
  LGPLv2+
  Maintainer:
  all
  Description:
  Provide the GNU Free Documentation License in Texinfo format.
  Files:
  doc/fdl.texi
  Depends-on:
  configure.ac:

  Include:
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unmodifiable license text

Maintainer:
all

1.74 gnuts 3.6.4 :r0
1.74.1 Available under license :
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1.78 go-context git :r0

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1.79 go-dbus 4.0.0 :r0

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Gocheck - A rich testing framework for Go

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1.82 go-logrus 0.11.0 :r0

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1.83 go-mux git :r0

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1.84 go-patricia 2.2.6 :r0

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1.86 go-runtime 1.10.3 :r0
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1.87 go-systemd 4 :r0

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1.88 gobject-introspection 1.58.0 :r0

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1.92 grpc-go 1.4.0 :r0
1.92.1 Available under license :

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1.93 grub 2.02 :r0
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From 7461a3de38b66edbe2f5593f9b9dab9f2704d32bc Mon Sep 17 00:00:00 2001
From: Hongxu Jia <hongxu.jia@windriver.com>
Date: Wed, 17 Aug 2016 04:06:34 -0400
Subject: [PATCH] grub module explicitly keeps symbol .module_license

While using oe-core toolchain to strip grub module 'all_video.mod',
it stripped symbol table:

-------------
root@localhost:~# objdump -t all_video.mod

all_video.mod: file format elf64-x86-64

SYMBOL TABLE:
no symbols
-------------

It caused grub to load module all_video failed.
-------------
grub> insmod all_video
error: no symbol table.
-------------

Tweak strip option to keep symbol .module_license could workaround
the issue.
-------------
root@localhost:~# objdump -t all_video.mod

all_video.mod: file format elf64-x86-64
SYMBOL TABLE:
0000000000000000 l d .text 0000000000000000 .text
0000000000000000 l d .data 0000000000000000 .data
0000000000000000 l d .module_license 0000000000000000 .module_license
0000000000000000 l d .bss 0000000000000000 .bss
0000000000000000 l d .moddeps 0000000000000000 .moddeps
0000000000000000 l d .modname 0000000000000000 .modname

c Leer

Upstream-Status: Pending

Signed-off-by: Hongxu Jia <hongxu.jia@windriver.com>

---

grub-core/genmod.sh.in | 2 +- 
1 file changed, 1 insertion(+), 1 deletion(-)

Index: grub-2.02/grub-core/genmod.sh.in
===================================================================
--- grub-2.02.orig/grub-core/genmod.sh.in
+++ grub-2.02/grub-core/genmod.sh.in
@@ -56,7 +56,7 @@ if test x@TARGET_APPLE_LINKER@ != x1; then
 if test x@platform@ != xemu; then
- @TARGET_STRIP@ --strip-unneeded \
+ @TARGET_STRIP@ --strip-unneeded \
 -K grub_mod_init -K grub_mod_fini \
 -K _grub_mod_init -K _grub_mod_fini \
+K _grub_mod_init -K _grub_mod_fini -K .module_license \
 -R .note.gnu.gold-version -R .note.GNU-stack \
 -R .note -R .comment -R .ARM.exidx $tmpfile || exit 1 
fi

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Version 3, 29 June 2007

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**1.96 harfbuzz 1.8.8 :r0**

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1.97 hdparm 9.56 :r0

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1.100 icu 62.1 :r0

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## 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
SHAREDLIBCXXFLAGS = -fPIC

## 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
%.$(SO).$(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) $@

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s $< $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s $< $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.101 initscripts 1.0 :r155
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Upstream-Status: Inappropriate [licensing]

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diff --git a/COPYING b/COPYING
new file mode 100644
index 0000000..d511905
--- /dev/null
+++ b/COPYING
@@ -0,0 +1,339 @@
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1.102 inotify-tools 3.14 :r0
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1.108 iptables 1.6.2 :r0
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1.110 jansson 2.11 :r0
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1.113 kbd 2.0.4 :r0

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```
# PC Screen (console) Fonts - psf1 header
#
0  leshort  0x0436  psf screen font data
>2  byte   0      256 characters, no index
>2  byte   1      512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d
```

```
# PC Screen (console) Fonts - psf2 header
#
0  lelong0x864ab572psf2 screen font data
>12lelong&1 with Unicode index
>16lelongx%b, %d glyphs
>28lelongx%b, %dx
>24lelong%b%d
The file
kbdrate.c
is Copyright (C) 1992 Rickard E. Faith.
```

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showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
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psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_consolec spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
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Appendix: How to Apply These Terms to Your New Programs

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

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

That's all there is to it!

1.118 kmod 25 :r0

1.119 less 530 :r0

1.119.1 Available under license :

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Version 3, 29 June 2007

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

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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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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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.

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1.129 libdaemon 0.14 :r0

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
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1.136 libffi 3.2.1 :r0

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1.137 libgcc 8.2.0 :r0
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    #!/usr/bin/python
    #
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    #
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    # 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.py --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.py --this-year libitm
    #
    # would run the script on just libitm/.
    #
    # 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',
            'ltversion.m4',
        ]
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symmlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

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

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile (r'^')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip 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]+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.
            '((\[Cc\]opyright'  
            ')|(\[Cc\]opyright\s+\(\[Cc\]\)'  
            ')|(\[Cc\]opyright\s+%s'  
            ')|(\[Cc\]opyright\s+\@copyright{}'  
            ')|copyright = u'  
            '@set\s+copyright\[w-]+')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
# 3: 'by', if used
'(by\$s\+\+\+)?'

# 4: the copyright holder. Don't allow multiple consecutive spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\( + name + (\(?\$s?\) + name + \))*)'?

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

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

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

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

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

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

class BadYear():
  def __init__ (self, year):
    self.year = year

  def __str__ (self):
    return 'unrecognised year: ' + self.year
def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

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

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

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

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

def is_complete (self, match):
    holder = match.group (4)
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:

    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))
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)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith (".tmp"):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                    lines.append (line)
                    line = next_line
            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                    os.fchmod (file.fileno(), mode)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)
def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

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

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

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

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

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

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        i = 0
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))
            i += 1
            if i % 4 == 0:
                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 + '
')
    else:
        sys.stdout.write(format % dir)
sys.exit(0)

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

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

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

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

class ConfigFilter(GenericFilter):
    def __init__(self):
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',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])
`.c`,
`.cc`,
`.h`,
`.hs`,
`.f`,
`.f90`,
`.go`,
`.inc`,
`.java`,
)

```python
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
    # Similarly params/README.
    if filename == 'README' and os.path.basename(dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename(dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file(self, dir, filename)
```

```python
class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

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

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

```python
class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])
```

```python
class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
```
self.skip_files |= set([
    # Contains no copyright of its own, but quotes the GPL.
    'intro.xml',
])

self.skip_dirs |= set([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

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

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('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')
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 ('gotools')
        self.add_dir ('include')
        # intel is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libgcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhlsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()

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reviewing courts shall apply local law that most closely approximates
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copy of the Program in return for a fee.

@end enumerate

@end heading

END OF TERMS AND CONDITIONS

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

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

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

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 program is distributed in the hope that it will be useful, but
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General Public License for more details.

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along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample
Also add information on how to contact you by electronic and paper mail.

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

```@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample
```

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

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@c man end

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
"
" Standard preamble:
" ========================================================================
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \(" will
\" give an unbreakable dash, \$Pi will give pi, \$L" will give a left
\" double quote, and \*(R\" will give a right double quote. \*(C+ will
\" give a nicer C++. Capital omega is used to do unbreakable dashes and
\" therefore won't be available. \*(C- and \*(C' expand to \" in nroff,
\" nothing in troff, for use with C<>.
.tr \(*W-.
.ds C+ Cv\'-.1v\h'-1p'\"-2+vh'-1p'+\"s0\'v'.1v\h'-1p'
.ie n \{
 . ds -- \(*W-.
 . ds PI pi
 . if \(n.(H=4u)&(1m=24u) .ds -- \(*W\h'-12u\"(*W\h'-12u\"\" diablo 10 pitch
 . if \(n.(H=4u)&(1m=20u) .ds -- \(*W\h'-12u\"(*W\h'-8u\"\" diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C' "
 . ds C' "
 'br'}
.cf{
 . ds -- \(em\}
 . ds PI \"p
 . ds L" 
 . ds R" "
 . ds C'
 . ds C'
 'br'}

\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
 .el .ds Aq ' 

\" If the F register is >0, we'll generate index entries on stderr for
\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
\" entries marked with X<> in POD. Of course, you'll have to process the
\" output yourself in some meaningful fashion.

\" Avoid warning from groff about undefined register 'F'.
.de IX ..
 .if \!nF .nr F 0
 .if \!nF>0 \{
 . de IX
 . tm Index:\$1\t\n\%	"\$2"
 ..
 . if \!nF==2 \{
 . nr % 0
 . nr F 2
 . }
 .}

\"
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

`V` fudge factors for nroff and troff
.if n />
  .ds #I 0
  .ds #V .8m
  .ds #F .3m
  .ds [#M 1
  .ds [#] MP
.end

`V` simple accents for nroff and troff
.if n />
  .ds ` `&
  .ds ` &
  .ds ^ &
  .ds , &
  .ds ~ ~
  .ds /
.end

`V` troff and (daisy-wheel) nroff accents
.ds : \k:\h'-(\n.wu*8/10-^{(#H)}\h'\n.u"  
.ds ^ \k:\h'-(\n.wu*8/10-^{(#H)}\h'\n.u'
.ds ^ \k:\h'-(\n.wu*11/10-^{(#H)}\h'\n.u'
.ds , \k:\h'-(\n.wu*8/10)'\h'\n.u'
.ds ~ \k:\h'-(\n.wu-^{(#H)-1m}'\h'\n.u'
.ds \ / \k:\h'-(\n.wu*8/10-^{(#H)}\h'\n.u'
.end

`V` corrections for vroff
.if v .ds ~ \k:\h'-(\n.wu*9/10-^{(#H)}\s-2\s\d\s+2\h'\n.u'
.if v .ds ^ \k:\h'-(\n.wu*10/11-^{(#H)}\h'-4m\h'\n.u'
.
`V` for low resolution devices (crt and lpr)
IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
" For nroff, turn off justification. Always turn off hyphenation; it makes
" way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\$1-\$0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
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IP "a." 4

IX Item "a."

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 /* Use the Sequent Symmetry assembler syntax. */

 /* Define the syntax of pseudo-ops, labels and comments. */

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

#define LPREFIX "L"

 /* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

 /* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
   fprintf (FILE, "t.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
   to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (".comm ", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
   ( fputs (".lcomm ", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

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

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

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

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

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))
/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

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

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

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.147 libmicrohttpd 0.9.59 :r0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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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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1.153 libnl 3.4.0 :r0

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1.156 libnss-nis 3.0 :r0

1.157 libnss-nisplus 1.3 :r0
1.158 libopflex beryllium-sr1 :r0

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1.160 libpcap 1.8.1 :r0

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

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1.163 libpng 1.6.36 :r0

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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
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The "Library", below, refers to any such software library or work
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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
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Activities other than copying, distribution and modification are not
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, 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
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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"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.

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

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

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

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

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

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

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

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

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

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

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

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

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1.168 libsmi 0.5.0 :r0

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

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
    traditional one-character options, and GNU'ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu/pub/Linux/libs
shhopt-1.1.2.tar.gz
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1.176 libunwind 1.2.1 :r0

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1.177 liburcu 0.10.1 :r0

1.177.1 Available under license:

Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Version 2.1, February 1999

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1.179 libusb1 1.0.22 :r0
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 */

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#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;                                                     
#endif /* UV_BSD_H */

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;                                                                 
  int wcount;                                                                 

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
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Contributors
============

.. note::

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  single nxt200x frontend driver.

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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_nicstart() 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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derivative of the original library, and the ordinary General Public License
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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
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concluded that weaker conditions might promote sharing better.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the ntx2004 frontend driver

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for merging the ntx2002 and ntx2004 modules into a
single ntx200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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{
    return (strcmp(license, "GPL") == 0
          || strcmp(license, "GPL v2") == 0
          || strcmp(license, "GPL and additional rights") == 0
          || strcmp(license, "Dual BSD/GPL") == 0
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}

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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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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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- **LGPL-2.1**: GNU Lesser General Public License v2.1 only
- **LGPL-2.1+**: GNU Lesser General Public License v2.1 or later

Aside from that, individual files can be provided under a dual license, e.g. one of the compatible GPL variants and alternatively under a permissive license like BSD, MIT etc.

The User-space API (UAPI) header files, which describe the interface of user-space programs to the kernel are a special case. According to the note in the kernel COPYING file, the syscall interface is a clear boundary, which does not extend the GPL requirements to any software which uses it to communicate with the kernel. Because the UAPI headers must be includable into any source files which create an executable running on the Linux kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

An alternative to boilerplate text is the use of Software Package Data Exchange (SPDX) license identifiers in each source file. SPDX license identifiers are machine parsable and precise shorthands for the license under which the content of the file is contributed. SPDX license identifiers are managed by the SPDX Workgroup at the Linux Foundation and have been agreed on by partners throughout the industry, tool vendors, and legal teams. For further information see https://spdx.org/
The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section `License identifiers` and have been retrieved from the official SPDX license list at https://spdx.org/licenses/ along with the license texts.

License identifier syntax
------------------------

1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the `#!/PATH_TO_INTERPRETER` in the first line. For those scripts the SPDX identifier goes into the second line.

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type:

- C source:// SPDX-License-Identifier: <SPDX License Expression>
- C header:// SPDX-License-Identifier: <SPDX License Expression> */
- ASM:// SPDX-License-Identifier: <SPDX License Expression> */
- scripts:# SPDX-License-Identifier: <SPDX License Expression>
- .rst:.. SPDX-License-Identifier: <SPDX License Expression>
- .dts[i]:// SPDX-License-Identifier: <SPDX License Expression>

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "/* */" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")" .
License identifiers for licenses like [L]GPL with the ‘or later’ option are constructed by using a “+” for indicating the ‘or later’ option.:

// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression:

// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note

Other examples using WITH exceptions found in the kernel are:

// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions` in the chapter `License identifiers`.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses:

// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause

Examples from the kernel for license expressions in dual licensed files:

// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect:

// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

Another other example where both sets of license terms need to be adhered to is:
License identifiers
-------------------

The licenses currently used, as well as the licenses for code added to the
kernel, can be broken down into:

1. _'Preferred licenses'_:  

   Whenever possible these licenses should be used as they are known to be
   fully compatible and widely used. These licenses are available from the
directory::

   LICENCES/preferred/

   in the kernel source tree.

   The files in this directory contain the full license text and
   'Metatags'_. The file names are identical to the SPDX license
   identifier which shall be used for the license in source files.

   Examples::

   LICENCES/preferred/GPL-2.0

   Contains the GPL version 2 license text and the required metatags::

   LICENCES/preferred/MIT

   Contains the MIT license text and the required metatags

   _'Metatags'_:  

   The following meta tags must be available in a license file:

   - Valid-License-Identifier:

     One or more lines which declare which License Identifiers are valid
     inside the project to reference this particular license text. Usually
     this is a single valid identifier, but e.g. for licenses with the 'or
     later' options two identifiers are valid.

   - SPDX-URL:

     The URL of the SPDX page which contains additional information related
to the license.
- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax` guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0+
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.
For 'GNU General Public License (GPL) version 2 only' use:
SPDX-License-Identifier: GPL-2.0
For 'GNU General Public License (GPL) version 2 or any later version' use:
SPDX-License-Identifier: GPL-2.0+
License-Text:
Full license text

::

SPDX-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.
SPDX-License-Identifier: MIT
License-Text:
Full license text

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/
in the kernel source tree.

The files in this directory contain the full license text and 'Metatags'. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

    LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

    LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`.

File format example::

    Valid-License-Identifier: ISC
    SPDX-URL: https://spdx.org/licenses/ISC.html
    Usage-Guide:
    Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.
    To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.
    SPDX-License-Identifier: ISC
    License-Text:
    Full license text

3. `Exceptions`:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

    LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full
exception text and the required 'Exception Metatags'.

Examples:

```
LICENSES/exceptions/Linux-syscall-note
```

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files. e.g. /* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */:

```
LICENSES/exceptions/GCC-exception-2.0
```

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

`Exception Metatags`:

The following meta tags must be available in an exception file:

- **SPDX-Exception-Identifier:**

  One exception identifier which can be used with SPDX license identifiers.

- **SPDX-URL:**

  The URL of the SPDX page which contains additional information related to the exception.

- **SPDX-Licenses:**

  A comma separated list of SPDX license identifiers for which the exception can be used.

- **Usage-Guidance:**

  Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the 'License identifier syntax' guidelines.

- **Exception-Text:**

  All text after this tag is treated as the original exception text

File format examples::
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
Usage-Guidance:
This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.
To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
Exception-Text:
Full exception text

SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+
Usage-Guidance:
The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.
To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
Exception-Text:
Full exception text

All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the `FSFE REUSE initiative <https://reuse.software/>`_.

```c
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif
```
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Version 2, June 1991

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

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 *and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 *loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
 *
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M. Welsh, 6 July 1996

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1.191 linux-kernel 4.9.206
:f5e2c57c41f0ea8d0e43a60c4837d2e3feb222f
9

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<tbody>
<tr>
<td>getopt_port</td>
<td>include-what-you-use/iwyu_getopt.*</td>
</tr>
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Program     Directory
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<none yet>  --------

// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject : NSObject
@end
@interface NSString : NSObject
@end

void __setRetained(id *ivar, id value, NSObject **o) {
  *ivar = value;
}
static NSString *_logProcessPrefix = 0;
void func() {
  __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@interface NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {

__setRetained(&_logProcessPrefix, processPrefix, &_logProcessPrefix);
@end

@class Derived;

NSObject *ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);

@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument
types).
    // Since registerFunc: expects a Derived object as it's second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc];  // expected-warning{{incompatible pointer types sending 'NSObject *
*(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}

    // rdar://10751015
    @protocol NSCopying @end
    @interface I
    - (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
    @end

    @class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying cannot
be confirmed}}

    ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {
        [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type
'id<NSCopying>'}}
        id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of
incompatible type 'ForwarClass *'}}
        return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type
'ForwarClass *'}}
    }

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| <none yet> | !--#include virtual="menu.html.incl"-->

Polly is developed by a team of students supported by different universities.

<h2>People</h2>
<h3>Raghesh Aloor</h3>
<p>Raghesh works on OpenMP code generation. He is funded as Google Summer of Code Student 2011.</p>

<h3>Johannes Doerfert</h3>
<p>Johannes works on Polly as part of his PhD research at Saarland University in Germany.</p>

<h2>Tobias Grosser</h2>
<p>Tobias is one of the two Co-founders of Polly. He designed the overall architecture and contributed to almost every part of Polly. Polly was started during his diploma studies at University of Passau. Furthermore, he spent 6 months at Ohio State University (funded by the U.S. National Science Foundation through awards 0811781 and 0926688). From August 2011 he works on Polly, during his PhD with INRIA/UMPC/ENS (funded through a Google Europe Fellowship in Efficient Computing). </p>

<p>Website: <a href="http://www.grosser.es">www.grosser.es</a></p>
<h3>Andreas Simburger</h3>
Andreas works on the profiling infrastructure during his PhD at University of Passau.

Website: [http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/](http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/)

<h3>Hongbin Zheng</h3>
Hongbin Zheng is one of the two Co-founders of Polly. He was funded as a Google Summer of Code Student 2010 and implemented parts of the Polly frontends as well as the automake/cmake infrastructure.

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<tr>
<td>jsoncpp</td>
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

    sw.bb.i: ; preds = %while.body
      unreachable

    sw.bb3.i: ; preds = %while.body
      unreachable

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

    sw.bb.i17: ; preds = %exit
      %0 = bitcast %struct.0* %lsr.iv to i32*
      %1 = load i32, i32* %0, align 4
      unreachable
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; NEXT, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
    ; CHECK: ret
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0> ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
    ; CHECK-LABEL: test_sitofp_fixed_shortish:
    ; CHECK-DAG: scvtf.2d v0, v0
    ; CHECK-DAG: scvtf.2d v1, v1
    ; CHECK: ret
    %flt = sitofp <4 x i64> %in to <4 x double>
    %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
    ret <4 x double> %res
}  

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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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*/

#ifndef _LTTNG_UST_CTL_PRIVATE_H
#define _LTTNG_UST_CTL_PRIVATE_H

#include <lttng/ust-ctl.h>

/*
* Map channel lttng_ust_shm_handle and add streams. Typically performed
* by the application to map the objects into its memory space.
*/
struct lttng_ust_shm_handle *
ustctl_map_channel(struct lttng_ust_object_data *chan_data);
int ustctl_add_stream(struct lttng_ust_shm_handle *lttng_ust_shm_handle,
struct lttng_ust_object_data *stream_data);

/*
* Note: the lttng_ust_object_data from which the lttng_ust_shm_handle
* is derived can only be released after unmapping the handle.
*/
void ustctl_unmap_channel(struct lttng_ust_shm_handle *lttng_ust_shm_handle);

#endif /* _LTTNG_UST_CTL_PRIVATE_H */
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/*
* Coverity usage:
*
* translate model into xml
* cov-make-library -of coverity_model.xml coverity_model.c
*
* compile (using outdir `cov'):
* cov-build --dir=cov make CC=gcc
*
* analyze (agressively, using `cov')
* cov-analyze --dir cov --wait-for-license --hfa --concurrency --enable-fnptr --enable-constraint-fpp --security --all --aggressiveness-level=high --field-offset-escape --user-model-file=coverity/coverity_model.xml
*
* generate html output (to 'html' from 'cov'):
* cov-format-errors --dir cov --html-output html
*/

struct lv_segment;
struct logical_volume;

struct lv_segment *first_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

struct lv_segment *last_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "STRING";
}

struct logical_volume *origin_from_cow(const struct logical_volume *lv)
{
    if (lv)
return lv;

__coverity_panic__();
}

/* simple_memccpy() from glibc */
void *memccpy(void *dest, const void *src, int c, size_t n)
{
const char *s = src;
char *d = dest;

while (n-- > 0)
if (*((d++ = *s++) == (char) c)
return d;

return 0;
}

/*
* 2 lines bellow needs to be placed in coverity/config/user_nodefs.h
* Not sure about any other way.
* Without them, coverity shows warning since x86 system header files
* are using inline assembly to reset fdset
*/
//#nodef FD_ZERO model_FD_ZERO
//void model_FD_ZERO(void *fdset);

void model_FD_ZERO(void *fdset)
{
unsigned i;

for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
((long*)fdset)[i] = 0;
}

/* Resent Coverity reports quite weird errors... */
int *__errno_location(void)
{
}

const unsigned short **__ctype_b_loc (void)
{
}
/* for now just keep then in file */

/*
struct cmd_context;
struct profile;

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}

const char *find_config_tree_str_allow_empty(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}
*/

/*
* Until fixed coverity case# 00531860:
*   A FORWARD_NULL false positive on a recursive function call
*
* model also these functions:
*/

/*
const struct dm_config_node;
const struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

const struct dm_config_node *find_config_tree_node(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

int find_config_tree_bool(struct cmd_context *cmd, int id, struct profile *profile)
{
    int b;

    return b;
}
*/
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1.200 lxc 3.1.0 :r0

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*/
#include "lxc/lxclock.h"
#include "config.h"
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>

#define mycontainername "lxctest.sem"
#define TIMEOUT_SECS 3

static void test_two_locks(void)
{
 struct lxc_lock *l;
 pid_t pid;
 int ret, status;
 int p[2];
 char c;

 if (pipe(p) < 0)
 exit(1);

 if ((pid = fork()) < 0)
 exit(1);

 if (pid == 0) {
 if (read(p[0], &c, 1) < 0) {
 perror("read");
 exit(1);
 }

 l = lxc_newlock("/tmp", "lxctest-sem");
 if (!l) {


fprintf(stderr, "%d: child: failed to create lock\n", __LINE__); exit(1);
}

if (lxclock(l, 0) < 0) {
fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__); exit(1);
}

fprintf(stderr, "%d: child: grabbed lock\n", __LINE__); exit(0);
}

l = lxc_newlock("/tmp", "lxctest-sem");
if (!l) {
fprintf(stderr, "%d: failed to create lock\n", __LINE__); exit(1);
}

if (lxclock(l, 0) < 0) {
fprintf(stderr, "%d: failed to get lock\n", __LINE__); exit(1);
}

if (write(p[1], "a", 1) < 0) {
 perror("write"); exit(1);
}

sleep(3);

ret = waitpid(pid, &status, WNOHANG);
if (ret == pid) { // task exited
if (WEXITED(status)) {
printf("%d exited normally with exit code %d
", pid, WEXITSTATUS(status));
if (WEXITSTATUS(status) != 0)
exit(1);
} else
printf("%d did not exit normally\n", pid);
return;
} else if (ret < 0) {
 perror("waitpid"); exit(1);
}

kill(pid, SIGKILL);
wait(&status);
close(p[1]);
close(p[0]);
lxcunlock(l);
lxc_putlock(l);
}

int main(int argc, char *argv[])
{
    int ret;
    struct lxc_lock *lock;

    lock = lxc_newlock(NULL, NULL);
    if (!lock) {
        fprintf(stderr, "%d: failed to get unnamed lock\n", __LINE__);
        exit(1);
    }

    ret = lxclock(lock, 0);
    if (ret) {
        fprintf(stderr, "%d: failed to take unnamed lock (%d)\n", __LINE__, ret);
        exit(1);
    }

    ret = lxcunlock(lock);
    if (ret) {
        fprintf(stderr, "%d: failed to put unnamed lock (%d)\n", __LINE__, ret);
        exit(1);
    }
    lxc_putlock(lock);

    lock = lxc_newlock("/var/lib/lxc", mycontainername);
    if (!lock) {
        fprintf(stderr, "%d: failed to get lock\n", __LINE__);
        exit(1);
    }

    struct stat sb;
    char *pathname = RUNTIME_PATH "\lxclock\var\lib\lxclc/";

    ret = stat(pathname, &sb);
    if (ret != 0) {
        fprintf(stderr, "%d: filename %s not created\n", __LINE__, pathname);
        exit(1);
    }
    lxc_putlock(lock);

    test_two_locks();
fprintf(stderr, "all tests passed\n");

exit(ret);
}

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```
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```

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```
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1.202 lzo 2.10 :r0
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/* compr1c.h --

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
http://www.oberhumer.com/opensource/lzo/

*/

#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if !defined(COMPRESS_ID)
#define COMPRESS_ID LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

/******************************************************************************
 //
******************************************************************************
#define LZO_COMPRESS \  LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,compress)
#endif

#define LZO_COMPRESS_FUNC \  LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,compress_func)

/******************************************************************************
 //
*******************************************************************************/

const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in,  lzo_uint  in_len,  
lzo_bytep out, lzo_uintp out_len, lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
/* vim:set ts=4 sw=4 et: */

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*/

#include "m4.h"
#include <getopt.h>
#include <limits.h>
#include <signal.h>

#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#ifndef DEBUG_STKOVF
# include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int)
M4_GNUC_NORETURN;
/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;
/* Debug (-d[flags]). */
int debug_level = 0;
/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all built-in functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = "";
#endif

/* Global catchall for any errors that should affect final error status, but
where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, '\1', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----------------------.
| Wrapper around error. |
`-----------------------*/
void m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_line : NULL,
                    current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

/*-------------------------------.
 | Wrapper around error_at_line.  |
`-------------------------------*/

void m4_error_at_line (int status, int errnum, const char *file, int line,
                       const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

#ifndef SIGBUS
#define SIGBUS SIGILL
#endif

#ifndef NSIG
#ifndef MAX
#define MAX(a,b) ((a) < (b) ? (b) : (a))
#endif
#define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, 
                        MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in
the signal handler, since gettext and strsignal are not
async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This
must be async-signal safe, since it is executed as a signal

static void M4_GNUC_PURE
fault_handler (int signo)
{
  if (signo)
  {
    /* POSIX states that reading static memory is, in general, not
     async-safe. However, the static variables that we read are
     never modified once this handler is installed, so this
     particular usage is safe. And it seems an oversight that
     POSIX claims strlen is not async-safe. Ignore write
     failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
    WRITE (STDERR_FILENO, program_name, strlen (program_name));
    WRITE (STDERR_FILENO, ": ", 2);
    WRITE (STDERR_FILENO, program_error_message,
          strlen (program_error_message));
    if (signal_message[signo])
    {
      WRITE (STDERR_FILENO, ": ", 2);
      WRITE (STDERR_FILENO, signal_message[signo],
             strlen (signal_message[signo]));
    }
    WRITE (STDERR_FILENO, "\n", 1);
  }
#undef WRITE
  _exit (EXIT_INTERNAL_ERROR);
}

/*---------------------------------------------.
 | Print a usage message and exit with STATUS. |
`---------------------------------------------*/
static void
usage (int status)
{
  if (status != EXIT_SUCCESS)
    xfprintf (stderr, "Try `\%s --help' for more information."\n", program_name);
  else
  {
    xprintf ("Usage: \%s [OPTION]... [FILE]..\n", program_name);
    fputs ("\n", stdout);
    puts ("\n"
Process macros in FILEs. If no FILE or if FILE is `\-', standard input\n is read in
", stdout);
    puts ("\n"
Mandatory or optional arguments to long options are mandatory or optional for short options too.

Operation modes:

- `--help` display this help and exit
- `--version` output version information and exit

```
", stdout);
```

```
-E, `--fatal-warnings` once: warnings become errors, twice: stop execution at first error
-i, `--interactive` unbuffer output, ignore interrupts
-P, `--prefix-builtins` force a `m4` prefix to all builtins
-Q, `--quiet, --silent` suppress some warnings for builtins
-`--warn-macro-sequence[REXP]` warn if macro definition matches `REXP`
", DEFAULT_MACRO_SEQUENCE);
```

```
#ifdef ENABLE_CHANGEWORD
fputs (``
-W, `--word-regexp=REGEXP` use `REGEXP` for macro name syntax
", stdout);
#endif
fputs (``

Preprocessor features:

- `--define=NAME[=VALUE]` define `NAME` as having `VALUE`, or empty
- `--include=DIRECTORY` append `DIRECTORY` to include path
- `--synclines` generate `#line NUM "FILE"` lines
- `--undefine=NAME` undefine `NAME`
", stdout);
```

```
puts (````);
xprintf (_```

Limits control:

- `--gnu` override `-G` to re-enable GNU extensions
- `--traditional` suppress all GNU extensions
- `--hashsize=PRIME` set symbol lookup hash table size [509]
- `--nesting-limit=NUMBER` change nesting limit, 0 for unlimited [%d]
", nesting_limit);
```

Frozen state files:

- `--freeze-state=FILE` produce a frozen state on `FILE` at end
- `--reload-state=FILE` reload a frozen state from `FILE` at start
", stdout);
```

Debugging:

```
-d, --debug=[FLAGS] set debug level (no FLAGS implies `aeq')
--debugfile=[FILE] redirect debug and trace output to FILE
   (default stderr, discard if empty string)
-l, --arglength=NUM restrict macro tracing size
-t, --trace=NAME trace NAME when it is defined

FLAGS is any of:
a show actual arguments
b show before collect, after collect and after call
c show expansion
d say current input file name
e show changes in input files
f show current input line number
p show results of path searches
q quote values as necessary, with a or e flag
t trace for all macro calls, not only traceon'ed
x add a unique macro call id, useful with c flag
V shorthand for all of the above flags

If defined, the environment variable `M4PATH' is a colon-separated list of directories included after any specified by `-I'.

Exit status is 0 for success, 1 for failure, 63 for frozen file version mismatch, or whatever value was passed to the m4exit macro.

For long options that have no equivalent short option, use a non-character as a pseudo short option, starting with CHAR_MAX + 1.

*/

/* For long options that have no equivalent short option, use a
   non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
  DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
  DIVERSIONS_OPTION, /* not quite -N, because of message */
  WARN_MACRO_SEQUENCE_OPTION, /* no short opt */
}
HELP_OPTION,                      /* no short opt */
VERSION_OPTION                     /* no short opt */
);

static const struct option long_options[] =
{
{"arglength", required_argument, NULL, 'l'},
{"debug", optional_argument, NULL, 'd'},
{"define", required_argument, NULL, 'D'},
{"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
{"fatal-warnings", no_argument, NULL, 'E'},
{"freeze-state", required_argument, NULL, 'F'},
{"gnu", no_argument, NULL, 'g'},
{"hashsize", required_argument, NULL, 'H'},
{"interactive", no_argument, NULL, 'i'},
{"nesting-limit", required_argument, NULL, 'L'},
{"prefix-builtins", no_argument, NULL, 'P'},
{"quiet", no_argument, NULL, 'q'},
{"reload-state", required_argument, NULL, 'r'},
{"silent", no_argument, NULL, 'q'},
{"synclines", no_argument, NULL, 's'},
{"trace", required_argument, NULL, 't'},
{"traditional", no_argument, NULL, 'g'},
{"undefine", required_argument, NULL, 'U'},
#ifdef ENABLE_CHANGEWORD
{"word-regexp", required_argument, NULL, 'w'},
#endif
{"debugfile", optional_argument, NULL, DEBUGFILEOPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},
{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},
{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was
stdin. */
static void
process_file (const char *name)
{
if (STREQ (name, ":-"))
{
/* If stdin is a terminal, we want to allow 'm4 - file -'
to read input from stdin twice, like GNU cat. Besides,
there is no point closing stdin before wrapped text, to minimize bugs in syscmd called from wrapped text. */
push_file (stdin, "stdin", false);
}
else {
  char *full_name;
  FILE *fp = m4_path_search (name, &full_name);
  if (fp == NULL) {
    error (0, errno, _("cannot open \"%s\""), name);
    /* Set the status to EXIT_FAILURE, even though we continue to process files after a missing file. */
    retcode = EXIT_FAILURE;
    return;
  }
  push_file (fp, full_name, true);
  free (full_name);
}
expand_input ();

/* POSIX requires only -D, -U, and -s; and says that the first two must be recognized when interspersed with file names. Traditional behavior also handles -s between files. Starting OPTSTRING with '-' forces getopt_long to hand back file names as arguments to opt \"\", rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#else
#endif

int main (int argc, char *const *argv) {
  struct sigaction act;
  macro_definition *head; /* head of deferred argument list */
  macro_definition *tail;
  macro_definition *defn;
  int optchar; /* option character */

  macro_definition *defines;
  bool interactive = false;
  bool seen_file = false;
  const char *debugfile = NULL;
  const char *frozen_file_to_read = NULL;
  const char *frozen_file_to_write = NULL;
const char *macro_sequence = "";

set_program_name (argv[0]);
retcode = EXIT_SUCCESS;
atexit (close_stdin);

include_init ();
debug_init ();

/* Stack overflow and program error handling. Ignore failure to install a handler, since this is merely for improved output on crash, and we should never crash :) . We install SIGBUS and SIGSEGV handlers prior to using the c-stack module; depending on the platform, c-stack will then override none, SIGSEGV, or both handlers. */
program_error_message = xasprintf (\"internal error detected; please report this bug to <\%s\\\>\", PACKAGE_BUGREPORT);
signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
sigemptyset (&act.sa_mask);
/* One-shot - if we fault while handling a fault, we want to revert to default signal behavior. */
act.sa_flags = SA_NODEFER | SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0 attempts a SIGSEGV, exporting it as 1 attempts an assertion failure with a fallback to abort. */
{
char *crash = getenv (\"M4_CRASH\\\);)
if (crash)
{
if (!strtotime (crash, NULL, 10))
++*(int *) 8;
assert (false);
abort ();
}
#
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;

while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
    long_options, NULL)) != -1)
switch (optchar)
{
default:
    usage (EXIT_FAILURE);

    case 'B':
    case 'S':
    case 'T':
        /* Compatibility junk: options that other implementations
         * support, but which we ignore as no-ops and don't list in
         * --help. */
        error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
            optchar);
        break;

    case 'N':
    case DIVERSIONS_OPTION:
        /* -N became an obsolete no-op in 1.4.x. */
        error (0, 0, _("warning: `m4 %s' is deprecated"),
            optarg == 'N' ? "-N" : "--diversions");
        break;

    case 'D':
    case 'U':
    case 's':
    case 't':
    case '1':
    case DEBUGFILE_OPTION:
        /* Arguments that cannot be handled until later are accumulated. */

        defn = (macro_definition *) xmalloc (sizeof (macro_definition));
        defn->code = optchar;
        defn->arg = optarg;
        defn->next = NULL;

        if (head == NULL)
            head = defn;
        else
tail->next = defn;
tail = defn;

break;

case 'E':
    if (! fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':
    hash_table_size = strtol (optarg, NULL, 10);
    if (hash_table_size == 0)
        hash_table_size = HASHMAX;
    break;

case 'I':
    add_include_directory (optarg);
    break;

case 'L':
    nesting_limit = strtol (optarg, NULL, 10);
    break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
user_word_regexp = optarg;
break;
#endif

case 'd':
debug_level = debug_decode (optarg);
if (debug_level < 0)
{
    error (0, 0, _("bad debug flags: \"%s\""), optarg);
    debug_level = 0;
}
break;

case 'e':
error (0, 0, _("warning: \`m4 -e' is deprecated, use \`-i' instead"));
/* fall through */
case 'i':
    interactive = true;
break;

case 'g':
    no_gnu_extensions = 0;
break;

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
break;

case 'o':
    /* -o/--error-output are deprecated synonyms of --debugfile,
    but don't issue a deprecation warning until autoconf 2.61
    or later is more widely established, as such a warning
    would interfere with all earlier versions of autoconf. */
    /* Don't call debug_set_output here, as it has side effects. */
    debugfile = optarg;
break;

case WARN_MACRO_SEQUENCE_OPTION:
    /* Don't call set_macro_sequence here, as it can exit.
    --warn-macro-sequence sets optarg to NULL (which uses the
default regexp); --warn-macro-sequence= sets optarg to ""
    (which disables these warnings). */
    macro_sequence = optarg;
break;

case VERSION_OPTION:
version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
exit (EXIT_SUCCESS);
break;

case HELP_OPTION:
    usage (EXIT_SUCCESS);
    break;
}
defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
    M4ERROR ((warning_status, errno, "cannot set debug file "
"%s", debugfile));

input_init ();
output_init ();
symtab_init ();
symtab_init ();
set_macro_sequence (macro_sequence);
include_env_init ();

if (frozen_file_to_read)
    reload_frozen_state (frozen_file_to_read);
else
    builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */
if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after */
/* initialization of the symbol table. */
while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
    case 'D':
        
        /* defines->arg is read-only, so we need a copy. */
        char *macro_name = xstrdup (defines->arg);
char *macro_value = strchr (macro_name, '=');
if (macro_value)
    *macro_value++ = '\0';
define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
    free (macro_name);
    }
    break;

    case 'U':
      lookup_symbol (defines->arg, SYMBOL_DELETE);
      break;

    case 't':
      sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
      SYMBOL_TRACED (sym) = true;
      break;

    case 's':
      sync_output = 1;
      break;

    case '\1':
      seen_file = true;
      process_file (defines->arg);
      break;

    case DEBUGFILE_OPTION:
    if (!debug_set_output (defines->arg))
      M4ERROR ((warning_status, errno, "cannot set debug file `\%s'",
                debugfile ? debugfile : "stderr"));
        break;
      default:
        M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments");
          abort ();  
    }

next = defines->next;
    free (defines);
    defines = next;
    }

/* Handle remaining input files. Each file is pushed on the input, 
and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
for (optind < argc; optind++)
    process_file (argv[optind]);

/* Now handle wrapup text. */
while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug
stream and detect any errors it might have encountered. The
three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
{
    make_diversion (0);
    undivert_all ();
}
output_exit ();
free_macro_sequence ();
exit (retcode);

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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
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Network Working Group  H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational M. Bellare
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   R. Canetti
   IBM
   February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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1.205 make 4.2.1 :r0
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#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef _AMIGA
#include <dos/dos.h>
#include <proto/dos.h>
#endif
#ifdef WINDOWS32
#include <windows.h>
#include <io.h>
#include "pathstuff.h"
#include "sub_proc.h"
#include "w32err.h"
#endif
#ifdef __EMX__
#include <sys/types.h>
#include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
    char * value;
    char x;

    value = getenv (name);
    if (value == NULL)
        return default_value;

    x = toupper (value[0]);
    switch (x)
    {
        case '1':
        case 'T':
        case 'E':
            return 1;
        break;
        case '0':
        case 'F':
        case 'D':
            return 0;
    }
}
#endif

#ifdef HAVE_WAITPID || defined HAVE_WAIT3
#define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#endif
#ifndef STDC_HEADERS
#ifndef sun                    /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__ ((noreturn));
#endif
double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;              /* The switch character. */
    enum                 /* Type of the value. */
    {
        flag,          /* Turn int flag on. */
        flag_off,      /* Turn int flag off. */
        string,        /* One string per invocation. */
        strlist,       /* One string per switch. */
        filename,      /* A string containing a file name. */
        positive_int,  /* A positive integer. */
        floating,      /* A floating-point number (double). */
        ignore         /* Ignored. */
    } type;

    void *value_ptr;    /* Pointer to the value-holding variable. */

    unsigned int env:1;   /* Can come from MAKEFLAGS. */
    unsigned int toenv:1; /* Should be put in MAKEFLAGS. */
    unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

    const void *noarg_value; /* Pointer to value used if no arg given. */
    const void *default_value; /* Pointer to default value. */

    const char *long_name; /* Long option name. */
};
/* True if C is a switch value that corresponds to a short option. */

#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given in command switches of a type that takes strlist arguments. */

struct stringlist {
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files that would appear to need remaking (-t). */

int touch_flag;

/* Nonzero means just print what commands would need to be executed, don't actually execute them (-n). */

int just_print_flag;

/* Print debugging info (--debug). */

static struct stringlist *db_flags = 0;
static int debug_flag = 0;

int db_level = 0;

/* Synchronize output (--output-sync). */

char *output_sync_option = 0;

ifndef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands executed to remake files. Just treat them all as successful (-i). */

int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base that results from reading the makefile (-p). */

int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status if the specified targets are not up to date (-q). */

int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */

int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */

int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */

int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory. This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */
int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;
static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our children under -O. */

char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run. Negative values mean unlimited, while zero means limit to zero load (which could be useful to start infinite jobs remotely but one at a time locally). */

#ifndef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif
static struct stringlist *directories = 0;

static struct stringlist *include_directories = 0;

static struct stringlist *old_files = 0;

static struct stringlist *new_files = 0;

static struct stringlist *eval_strings = 0;

static int print_usage_flag = 0;

int warn_undefined_variables_flag;

static int always_make_set = 0;
int always_make_flag = 0;

int rebuilding_makefiles = 0;

struct variable shell_var;

char cmd_prefix = 't';
static const char *const usage[] =
{
    N_("Options:
"),
    N_("\n"),
    -b, -m Ignored for compatibility\n"),
    N_("\n"),
    -B, --always-make Unconditionally make all targets.\n"),
    N_("\n"),
    -C DIRECTORY, --directory=DIRECTORY\n
        Change to DIRECTORY before doing anything.\n"),
    N_("\n"),
    -d Print lots of debugging information.\n"),
    N_("\n"),
    --debug=[FLAGS] Print various types of debugging information.\n"),
    N_("\n"),
    -e, --environment-overrides\n
        Environment variables override makefiles.\n"),
    N_("\n"),
    --eval=STRING Evaluate STRING as a makefile statement.\n"),
    N_("\n"),
    -f FILE, --file=FILE, --makefile=FILE\n
        Read FILE as a makefile.\n"),
    N_("\n"),
    -h, --help Print this message and exit.\n"),
    N_("\n"),
    -i, --ignore-errors Ignore errors from recipes.\n"),
    N_("\n"),
    -I DIRECTORY, --include-dir=DIRECTORY\n
        Search DIRECTORY for included makefiles.\n"),
    N_("\n"),
    -j [N], --jobs=[N] Allow N jobs at once; infinite jobs with no arg.\n"),
    N_("\n"),
    -k, --keep-going Keep going when some targets can’t be made.\n"),
    N_("\n"),
    -l [N], --load-average=[N], --max-load=[N]\n
        Don’t start multiple jobs unless load is below N.\n"),
    N_("\n"),
    -L, --check-symmlink-times Use the latest mtime between symlinks and target.\n"),
    N_("\n"),
    -n, --just-print, --dry-run, --recon\n
        Don’t actually run any recipe; just print them.\n"),
    N_("\n"),
    -o FILE, --old-file=FILE, --assume-old=FILE\n
        Consider FILE to be very old and don’t remake it.\n"),
-O[TYPE], --output-sync[=TYPE]
    Synchronize output of parallel jobs by TYPE.

-p, --print-data-base       Print make's internal database.

-q, --question              Run no recipe; exit status says if up to date.

-r, --no-built-in-rules     Disable the built-in implicit rules.

-R, --no-built-in-variables Disable the built-in variable settings.

-s, --silent, --quiet       Don't echo recipes.

-S, --no-keep-going, --stop  Turns off -k.

t, --touch                  Touch targets instead of remaking them.

--trace                    Print tracing information.

-v, --version               Print the version number of make and exit.

-w, --print-directory      Print the current directory.

--no-print-directory       Turn off -w, even if it was turned on implicitly.

-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE
    Consider FILE to be infinitely new.

--warn-undefined-variables Warn when an undefined variable is referenced.

/* The table of command switches.
   Order matters here: this is the order MAKEFLAGS will be constructed.
   So be sure all simple flags (single char, no argument) come first. */

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0, "debug" },
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend" },
    { 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "env_overrides" },
    { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
};
{"i", flag, &ignore_errors_flag, 1, 1, 0, 0, "ignore-errors" },
{"k", flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag, "keep-going" },
{"L", flag, &check_symlink_flag, 1, 1, 0, 0, "check-symlink-times" },
{"m", ignore, 0, 0, 0, 0, 0, 0 },
{"n", flag, &just_print_flag, 1, 1, 0, 0, "just-print" },
{"p", flag, &print_data_base_flag, 1, 1, 0, 0, "print-data-base" },
{"q", flag, &question_flag, 1, 1, 0, 0, "question" },
{"r", flag, &no_builtin_rules_flag, 1, 1, 0, 0, "no-builtin-rules" },
{"R", flag, &no_builtin_variables_flag, 1, 1, 0, 0, "no-builtin-variables" },
{"s", flag, &silent_flag, 1, 1, 0, 0, "silent" },
{"S", flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag, "no-keep-going" },
{"t", flag, &touch_flag, 1, 1, 0, 0, "touch" },
{"v", flag, &print_version_flag, 1, 1, 0, 0, "version" },
{"w", flag, &print_directory_flag, 1, 1, 0, 0, "print-directory" },

/* These options take arguments. */
{"C", filename, &directories, 0, 0, 0, 0, 0, "directory" },
{"T", filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{"t", filename, &include_directories, 1, 1, 0, 0, "include-dir" },
{"j", positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots, "jobs" },
#ifndef NO_FLOAT
{"l", floating, &max_load_average, 1, 1, 0, &default_load_average, &default_load_average, "load-average" },
#else
{"T", positive_int, &max_load_average, 1, 1, 0, &default_load_average, &default_load_average, "load-average" },
#endif
{"o", filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{"O", string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{"W", filename, &new_files, 0, 0, 0, 0, 0, "what-if" },

/* These are long-style options. */
{"CHAR_MAX+1", strlist, &db_flags, 1, 1, 0, "basic", 0, "debug" },
{"CHAR_MAX+2", string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{"CHAR_MAX+3", flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{"CHAR_MAX+4", flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0, "no-print-directory" },
{"CHAR_MAX+5", flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0, "warn-undefined-variables" },
{"CHAR_MAX+6", strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
{"CHAR_MAX+7", string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },
{ 0, 0, 0, 0, 0, 0, 0, 0 }:
/* Secondary long names for options. */

static struct option long_option_aliases[] =
{
    { "quiet", no_argument, 0, 's' },
    { "stop", no_argument, 0, 'S' },
    { "new-file", required_argument, 0, 'W' },
    { "assume-new", required_argument, 0, 'W' },
    { "assume-old", required_argument, 0, 'o' },
    { "max-load", optional_argument, 0, 'l' },
    { "dry-run", no_argument, 0, 'n' },
    { "recon", no_argument, 0, 'n' },
    { "makefile", required_argument, 0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line (or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */

char *directory_before_chdir;

/* Our current directory after processing all -C options. */

char *starting_directory;
/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable. The value will be the name of the goal to remake if the command line does not override it. It can be set by the makefile, or else it's the first target defined in the makefile whose name does not start with '.' */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT whose commands are used for any file that has none of its own. This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic '.POSIX' target. This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target. This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the '.ONESHELL' target. This causes the entire recipe to be handed to SHELL as a single string, potentially containing newlines. */

int one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This attempts to synchronize the output of parallel jobs such that the results of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the '.NOTPARALLEL' target. This turns off parallel builds for this invocation of make. */

int not_parallel;
/* Nonzero if some rule detected clock skew; we keep track so (a) we only print one warning about it during the run, and (b) we can print a final warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to options, while reading makefiles, etc. */

struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */
#ifndef POSIX
sigset_t fatal_signal_set;
#else
#endif
#ifndef HAVE_SIGSETMASK
int fatal_signal_mask;
#endif
#endif
#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
#if !defined HAVE_SIGACTION
#define bsd_signal signal
#else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;
    return oact.sa_handler;
}
#endif

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static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'\0'] = MAP_NUL;
    stopchar_map[(int)'#'] = MAP_COMMENT;
    stopchar_map[(int)';'] = MAP_SEMI;
    stopchar_map[(int)'='] = MAP_EQUALS;
    stopchar_map[(int)':'] = MAP_COLON;
    stopchar_map[(int)'%'] = MAP_PERCENT;
    stopchar_map[(int)'|'] = MAP_PIPE;
    stopchar_map[(int)'.'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int)','] = MAP_COMMA;
    stopchar_map[(int)'$'] = MAP_VARIABLE;
    stopchar_map[(int)'-'] = MAP_USERFUNC;
    stopchar_map[(int)'] = MAP_USERFUNC;

    stopchar_map[(int)'\'] = MAP_USERFUNC;
    stopchar_map[(int)'] = MAP_BLANK;
    stopchar_map[(int)'] = MAP_BLANK;

    stopchar_map[(int)'/'] = MAP_DIRSEP;
    #if defined(VMS)
    stopchar_map[(int)'] |= MAP_DIRSEP;
    stopchar_map[(int)'] |= MAP_DIRSEP;
    stopchar_map[(int)'>'] |= MAP_DIRSEP;
    #elif defined(HAVE_DOS_PATHS)
    stopchar_map[(int)'] |= MAP_DIRSEP;
    #endif

    for (i = 1; i <= UCHAR_MAX; ++i)
    {
        
    
}
if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
/* Don't mark blank characters as newline characters. */
    stopchar_map[i] |= MAP_NEWLINE;
else if (isalnum (i))
    stopchar_map[i] |= MAP_USERFUNC;
}
}

static const char *
ex

/* This is also done in parse_file_seq, so this is redundant
   for names read from makefiles. It is here for names passed
   on the command line. */
while (name[0] == '.' && name[1] == '/')
    name += 2;
while (name[0] == '/')
/* Skip following slashes: "/foo" is "foo", not "foo". */
    ++name;
}

/* Nothing else but one or more "/", maybe plus slashes! */
name = "/";
}

cp = strcache_add (name);
free (expanded);
return cp;
}
/* Toggle -d on receipt of SIGUSR1. */

#ifndef SIGUSR1
static RETSIGTYPE
dbg_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
            const char *p = *pp;

        while (1)
            {
                switch (tolower (p[0]))
                    {
                        case 'a':
                            db_level |= DB_ALL;
                            break;
                        case 'b':
                            db_level |= DB_BASIC;
                            break;
                        case 'i':
                            db_level |= DB_BASIC | DB_IMPLICIT;
                            break;
                        case 'j':
                            db_level |= DB_JOBS;
                            break;
                        case 'm':
                            db_level |= DB_BASIC | DB_MAKEFILES;
                            break;
                        case 'n':
                            db_level = 0;
                            break;
                        case 'v':
                            db_level |= DB_BASIC | DB_VERBOSE;
                            break;
                    }
            }
default:
  OS (fatal, NILF,
    _("unknown debug level specification '%s'"), p);
  }

  while (*++p != '\0')
    if (*p == ',' || *p == ' ')
      { ++p;
        break;
      }

    if (*p == '\0')
      break;

  }

if (db_level)
  verify_flag = 1;

if (! db_level)
  debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
  #ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
  #else
    if (output_sync_option)
      {
        if (streq (output_sync_option, "none"))
          output_sync = OUTPUT_SYNC_NONE;
        else if (streq (output_sync_option, "line"))
          output_sync = OUTPUT_SYNC_LINE;
        else if (streq (output_sync_option, "target"))
          output_sync = OUTPUT_SYNC_TARGET;
        else if (streq (output_sync_option, "recurse"))
          output_sync = OUTPUT_SYNC_RECURSE;
        else
          OS (fatal, NILF,
            _("unknown output-sync type '%s'"), output_sync_option);
      }

    if (sync_mutex)
      RECORD_SYNC_MUTEX (sync_mutex);
  #endif

  RECORD_SYNC_MUTEX (sync_mutex);
/* This is called from start_job_command when it detects that output_sync option is in effect. The handle to the synchronization mutex is passed, as a string, to sub-makes via the --sync-mutex command-line argument. */

void prepare_mutex_handle_string (sync_handle_t handle)
{
  if (!sync_mutex)
  {
    /* Prepare the mutex handle string for our children. */
    /* 2 hex digits per byte + 2 characters for "0x" + null. */
    sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
    sprintf (sync_mutex, "0x%Ix", handle);
    define_makeflags (1, 0);
  }
}

/* HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture exception and print it to stderr instead.

* If ! DB_VERBOSE, just print a simple message and exit.
* If DB_VERBOSE, print a more verbose message.
* If compiled for DEBUG, let exception pass through to GUI so that debuggers can attach.
*/

LONG WINAPI handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
  PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
  LPSTR cmdline = GetCommandLine ();//
  LPSTR prg = strtok (cmdline, " ");
  CHAR errmsg[1024];
  #ifdef USE_EVENT_LOG
  HANDLE hEventSource;
  LPTSTR lpszStrings[1];
  #endif

  if (! ISDB (DB_VERBOSE))
  {
  
  }
sprintf (errmsg,
    _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)\n"),
    prg, exrec->ExceptionCode, exrec->ExceptionAddress);
fprintf (stderr, errmsg);
exit (255);
}

sprintf (errmsg,
    _("Unhandled exception filter called from program %s\nExceptionCode = %lx\nExceptionFlags = %lx\nExceptionAddress = 0x%p\n"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberOfParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
            ? (_("Access violation: write operation at address 0x%p\n"))
            : (_("Access violation: read operation at address 0x%p\n")),
        (VOID)*exrec->ExceptionInformation[1]);

#ifdef USE_EVENT_LOG
    hEventSource = RegisterEventSource (NULL, "GNU Make");
    lpszStrings[0] = errmsg;

    if (hEventSource != NULL)
        {
            ReportEvent (hEventSource, /* handle of event source */
                EVENTLOG_ERROR_TYPE, /* event type */
                0, /* event category */
                0, /* event ID */
                NULL, /* current user's SID */
                1, /* strings in lpszStrings */
                0, /* no bytes of raw data */
                lpszStrings, /* array of error strings */
                NULL); /* no raw data */

            (VOID) DeregisterEventSource (hEventSource);
        }
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
    return EXCEPTION_CONTINUE_SEARCH;
#else

*/
exit (255);
return (255); /* not reached */
#endif
}

/*
* On WIN32 systems we don't have the luxury of a /bin directory that
* is mapped globally to every drive mounted to the system. Since make could
* be invoked from any drive, and we don't want to propagate /bin/sh
* to every single drive. Allow ourselves a chance to search for
* a value for default shell here (if the default path does not exist).
*/

int
find_and_set_default_shell (const char *token)
{
    int sh_found = 0;
    char *atoken = 0;
    const char *search_token;
    const char *tokend;
    PATH_VAR(sh_path);
    extern const char *default_shell;
    if (!token)
        search_token = default_shell;
    else
        search_token = atoken = xstrdup (token);

    /* If the user explicitly requests the DOS cmd shell, obey that request.
       However, make sure that's what they really want by requiring the value
       of SHELL either equal, or have a final path element of, "cmd" or
       "cmd.exe" case-insensitive. */
    tokend = search_token + strlen (search_token) - 3;
    if (((tokend == search_token
         && (tokend[-1] == ' ' || tokend[-1] == ' '))
         && !strcasemcmp (tokend, "cmd")
         || ((tokend - 4 == search_token
             && (tokend[-5] == ' ' || tokend[-5] == ' '))
             && !strcasemcmp (tokend - 4, "cmd.exe")))
    {
        batch_mode_shell = 1;
        unixy_shell = 0;
        sprintf (sh_path, "%s", search_token);
        default_shell = xstrdup (w32ify (sh_path, 0));
        DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                          default_shell));
    }
sh_found = 1;
}
else if (!no_default_sh_exe
    && (token == NULL || !strcmp (search_token, default_shell)))
{
    /* no new information, path already set or known */
    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
        default_shell));
    sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);
        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;

                /* terminate loop */
                p += strlen (p);
            }
            else
            {
                *ep = PATH_SEPARATOR_CHAR;
                p = ++ep;
            }
        }
    }
}
ep = strchr (p, PATH_SEPARATOR_CHAR);
}

#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif  /* WINDOWS32 */

#endif  /* WINDOWS32 */

#ifdef BATCH_MODE_ONLY_SHELL
batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);
}  /* naive test */

if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
batch_mode_shell = 1;
#endif

if (sh_found)
    DB (DB_VERBOSE,
        (_("find_and_set_shell() path search set default_shell = \%s\n"),
         default_shell));
}
} /* naive test */

if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);
}  /* WINDOWS32 */

#endif  /* WINDOWS32 */

#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif  /* WINDOWS32 */
static void
reset_jobserver (void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifdef __MSDOS__
#endif /* __MSDOS__ */

int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
#ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;
    SetUnhandledExceptionFilter (handle_runtime_exceptions);
    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
#endif
    output_init (&make_sync);
    initialize_stopchar_map();
#ifdef SET_STACK_SIZE
    /* Get rid of any avoidable limit on stack size. */
    {
        struct rlimit rlim;
        /* Set the stack limit huge so that alloca does not fail. */
        if (getrlimit (RLIMIT_STACK, &rlim) == 0
            && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
{  
    stack_limit = rlim;  
    rlim.rlim_cur = rlim.rlim_max;  
    setrlimit (RLIMIT_STACK, &rlim);  
}  
else  
    stack_limit.rlim_cur = 0;  
}  
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#if defined (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of 'system', to make up for the dumb default shell. */
__system_flags = (__system_redirect  
    | __system_use_shell  
    | __system_allow_multiple_cmds  
    | __system_allow_long_cmds  
    | __system_handle_null_commands  
    | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifdef POSIX
    sigemptyset (&fatal_signal_set);
    #define ADD_SIG(sig) sigaddset (&fatal_signal_set, sig)
#else
    #ifdef HAVE_SIGSETMASK
        fatal_signal_mask = 0;
        #define ADD_SIG(sig) fatal_signal_mask |= sigmask (sig)
    #else
        #define ADD_SIG(sig) (void)sig
    #endif
#endif
```c
#define FATAL_SIG(sig)                                                        
if (bsd_signal (sig, fatal_error_signal) == SIG_IGN)                        
    bsd_signal (sig, SIG_IGN);                                                
else                                                                        
    ADD_SIG (sig);

#ifdef SIGHUP
    FATAL_SIG (SIGHUP);
#endif
#ifdef SIGQUIT
    FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);

#ifdef __MSDOS__
    /* Windows 9X delivers FP exceptions in child programs to their          
       parent! We don't want Make to die when a child divides by zero,       
       so we work around that lossage by catching SIGFPE. */                
    FATAL_SIG (SIGFPE);
#endif

#ifdef SIGDANGER
    FATAL_SIG (SIGDANGER);
#endif
#ifdef SIGXCPU
    FATAL_SIG (SIGXCPU);
#endif
#ifdef SIGXFSZ
    FATAL_SIG (SIGXFSZ);
#endif

#undef  FATAL_SIG

/* Do not ignore the child-death signal. This must be done before            
   any children could possibly be created; otherwise, the wait             
   functions won't work on systems with the SVR4 ECHILD brain              
   damage, if our invoker is ignoring this signal. */

#ifdef HAVE_WAIT_NOHANG
    # if defined SIGCHLD
    (void) bsd_signal (SIGCHLD, SIG_DFL);
    # endif
    # if defined SIGCLD && SIGCLD != SIGCHLD
    (void) bsd_signal (SIGCLD, SIG_DFL);
    # endif
#endif
```
output_init(NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
{
    program = strrchr (argv[0], '/');
#if defined(__MSDOS__) || defined(__EMX__)
    if (program == 0)
        program = strrchr (argv[0], '\');
#else
    
#endif
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
#ifdef WINDOWS32
    if (program == 0)
    {
        /* Extract program from full path */
        program = strrchr (argv[0], '\');
        if (program)
        {  
            int argv0_len = strlen (program);
            if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
                /* Remove .exe extension */
                program[argv0_len - 4] = '\0';
        }
    }
#endif
#ifdef VMS
    set_program_name (argv[0]);
    program = program_name;
{
    const char *shell;
    char pwdbuf[256]:
    char *pwd;
    shell = getenv ("SHELL");

if (shell != NULL)
    vms_gnv_shell = 1;

/* Need to know if CRTL set to report UNIX paths. Use getcwd as it works on all versions of VMS. */
pwd = getcwd(pdbuf, 256);
if (pwd[0] == '/')
    vms_report_unix_paths = 1;

vms_use_mcr_command = get_vms_env_flag("GNV$MAKE_USE_MCR", 0);

vms_always_use_cmd_file = get_vms_env_flag("GNV$MAKE_USE_CMD_FILE", 0);

/* Legacy behavior is on VMS is older behavior that needed to be changed to be compatible with standard make behavior. For now only completely disable when running under a Bash shell. TODO: Update VMS built in recipes and macros to not need this behavior, at which time the default may change. */
    vms_legacy_behavior = get_vms_env_flag("GNV$MAKE_OLD_VMS", !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is incompatible with built in functions that expect space separated lists. Allow this to be selectively turned off. */
    vms_comma_separator = get_vms_env_flag("GNV$MAKE_COMMA", vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax. VMS requires double quotes for strings and escapes quotes differently. When this option is active, VMS will try to simulate Posix shell simulations instead of using VMS DCL behavior. */
    vms_unix_simulation = get_vms_env_flag("GNV$MAKE_SHELL_SIM", !vms_legacy_behavior);

}
if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif
/* Set up to access user data (files). */
user_access ();
initialize_global_hash_tables();

/* Figure out where we are. */

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
  #ifdef HAVE_GETCWD
    perror_with_name ("getcwd", ":");
  #else
    OS (error, NILF, "getwd: %s", current_directory);
  #endif
  current_directory[0] = '\0';
  directory_before_chdir = 0;
}
else
directory_before_chdir = xstrdup (current_directory);

#define __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", ":", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", ":", o_default, 0)->special = 1; */
define_variable_cname (".RECIPEPREFIX", ":", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", ":c", o_default, 0);
define_variable_cname (".LOADED", ":", o_default, 0);

/* Set up .FEATURES
Use a separate variable because define_variable_cname() is a macro and
some compilers (MSVC) don't like conditionals in macros. */
{
  const char *features = "target-specific order-only second-expansion"
    " else-if shortest-stem undefined oneshell"
  #ifndef NO_ARCHIVES
    " archives"
  #endif
  #ifdef MAKE_JOBSERVER
    " jobserver"
  #endif
  #ifdef NO_OUTPUT_SYNC
    " output-sync"
ifndef MAKE_SYMLINKS
    "check-symlink"
#endif

ifdef HAVE_GUILE
    "guile"
endif

ifdef MAKE_LOAD
    "load"
endif

;

define_variable_cname (.FEATURES, features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */

ifndef _AMIGA
{
    unsigned int i;

    for (i = 0; envp[i] != 0; ++i)
    {
        struct variable *v;
        const char *ep = envp[i];
        /* By default, export all variables culled from the environment. */
        enum variable_export export = v_export;
        unsigned int len;

        while (! STOP_SET (*ep, MAP_EQUALS))
            ++ep;

        /* If there's no equals sign it's a malformed environment. Ignore. */
        if (*ep == '0')
            continue;

#ifndef WINDOWS32
    if (!unix_path && strneq (envp[i], "PATH=", 5))
        unix_path = ep+1;
    else if (!strnicmp (envp[i], "Path=", 5))
    {
        if (!windows32_path)
            windows32_path = ep+1;
#endif

    /* The variable has a value. */
    /* Append the value to the environment. */
    /* Terminate the value. */
#endif

    /* Remove the variable from envp. */
}
/* PATH gets defined after the loop exits. */
continue;
}
#endif

/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed 
the enter statement" flag is set. */
if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
{
  if (*ep == '- ')
  {
    OUTPUT_TRACED ();
    ++ep;
  }
  restarts = (unsigned int) atoi (ep);
  export = v_noexport;
}

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the 
value of SHELL given to subprocesses. */
if (streq (v->name, "SHELL"))
{
  #ifndef __MSDOS__
  export = v_noexport;
  #endif
  shell_var.name = xstrdup ("SHELL");
  shell_var.length = 5;
  shell_var.value = xstrdup (ep);
}

v->export = export;
}
#endif
#endif /* For Amiga, read the ENV: device, ignoring all dirs */

BPTR env, file, old;
char buffer[1024];
int len;
__aligned struct FileInfoBlock fib;

env = Lock ("ENV:", ACCESS_READ);
if (env)
{
    old = CurrentDir (DupLock (env));
    Examine (env, &fib);

    while (ExNext (env, &fib))
    {
        if (fib.fib_DirEntryType < 0) /* File */
        {
            /* Define an empty variable. It will be filled in
            variable_lookup(). Makes startup quite a bit faster. */
            define_variable (fib.fib_FileName,
                    strlen (fib.fib_FileName),
                    ",", o_env, 1)->export = v_export;
        }
    }
    UnLock (env);
    UnLock (CurrentDir (old));
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", ",", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
   MFLAGS="CC=cc -pipe" "CFLAGS=-g"
   and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading
the makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */
syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
    int env_slots = arg_job_slots;
    arg_job_slots = INVALID_JOB_SLOTS;

decode_switches (argc, (const char **)argv, 0);
    argv_slots = arg_job_slots;

    if (arg_job_slots == INVALID_JOB_SLOTS)
        arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
    if (isatty (fileno (stdout)))
        if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
            {
                const char *tty = TTYNAME (fileno (stdout));
                define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
                    o_default, 0)-&gt;export = v_export;
            }
    if (isatty (fileno (stderr)))
        if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
            {
                const char *tty = TTYNAME (fileno (stderr));
                define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
                    o_default, 0)-&gt;export = v_export;
            }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);

    if (make_sync.syncout &amp;&amp; ! syncing)
        output_close (&amp;make_sync);

    make_sync.syncout = syncing;
    OUTPUT_SET (&amp;make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v &amp;&amp; v-&gt;value[0] != '\0' &amp;&amp; v-&gt;value[0] != '-')
        makelevel = (unsigned int) atoi (v-&gt;value);
    else
makelevel = 0;
}

#ifdef WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
    fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, _("done sleep(30). Continuing.\n"));
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();
#endif VMS

/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif WINDOWS32

/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], "/\"\n") || strstr (argv[0], ".")
    || strneq (argv[0], "/", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#if defined (__MSDOS__) || defined (__EMX__)
    if (strchr (argv[0], '\'))
    {
        char *p;
        ...
argv[0] = xstrdup (argv[0]);
for (p = argv[0]; *p; p++)
    if (*p == '\')
        *p = '/';
}
/* If argv[0] is not in absolute form, prepend the current
directory. This can happen when Make is invoked by another DJGPP
program that uses a non-absolute name. */
if (current_directory[0] != '0'
    && argv[0] != 0
    && (argv[0][0] != '/' && (argv[0][0] == '0' || argv[0][1] != ':'))
#ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
#endif
)
    argv[0] = xstrdup (concat (3, current_directory, '/', argv[0]));
#else /* !__MSDOS__ */
    if (current_directory[0] != '0'
        && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
#ifdef HAVE_DOS_PATHS
        && (argv[0][0] != '\' && (!argv[0][0] || argv[0][1] != ':'))
        && strchr (argv[0], '\') != 0
#endif
    )
        argv[0] = xstrdup (concat (3, current_directory, '/', argv[0]));
#endif /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set
in the makefile, and we want to verify the authorization is valid before
make has a chance to start using it for something else. */
if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
    {
        if (jobserver_parse_auth (jobserver_auth))
        {
/* Success! Use the jobserver. */
            job_slots = 0;
            goto job_setup_complete;
        }
    }
}
O (error, NILF, _("warning: jobserver unavailable: using -j1. Add ‘+’ to parent make rule.
"));
arg_job_slots = 1;
}

/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
  /* If restarts is >0 we already printed this message. */
  O (error, NILF,
      _("warning: -jN forced in submake: disabling jobserver mode.
"));

/* We failed to use our parent’s jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
  /* The default is one job at a time. */
  job_slots = 1;
else
  /* Use whatever was provided. */
  job_slots = (unsigned int)arg_job_slots;

job_setup_complete:

/* The extra indirection through $(MAKE_COMMAND) is done
   for hysterical raisins. */
#endif

#define VMS
if (vms_use_mcr_command)
  define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
  define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
  define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$\{MAKE\_COMMAND\}\", o_default, 1);

if (command_variables != 0)
{
  struct command_variable *cv;
  struct variable *v;
  unsigned int len = 0;
  char *value, *p;

  /* Figure out how much space will be taken up by the command-line
     variable definitions. */
  for (cv = command_variables; cv != 0; cv = cv->next)
  {
    v = cv->variable;
    /*
len += 2 * strlen (v->name);
if (! v->recursive)
    ++len;
    ++len;
len += 2 * strlen (v->value);
++len;
}

/* Now allocate a buffer big enough and fill it. */
p = value = alloca (len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env (p, v->name);
    if (! v->recursive)
        *p++ = ':';
        *p++ = '=';
        p = quote_for_env (p, v->value);
        *p++ = '=';
}
p[-1] = '0';       /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2
makefile could validly use for its own variable. */
define_variable_cname ("-*-command-variables-*-", value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
Normally a reference to this variable is written into the value of
MAKEFLAGS, allowing the user to override this value to affect the
exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
a reference to this hidden variable is written instead. */
define_variable_cname ("MAKEOVERRIDES", "${-*command-variables-.*-}",
o_env, 1);
#endif VMS
    vms_export_dcl_symbol ("MAKEOVERRIDES", "${-*command-variables-.*-}");
#endif

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];
#ifdef WINDOWS32
    /* WINDOWS32 chdir() doesn't work if the directory has a trailing */

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But allow -C/ just in case someone wants that. */
{
    char *p = (char *)dir + strlen (dir) - 1;
    while (p > dir && (p[0] == '/' || p[0] == '\'))
        --p;
    p[1] = '0';
}
#endif
if (chdir (dir) < 0)
    pfatal_with_name (dir);
}

#ifdef WINDOWS32
/*
 * THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
 * TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c.
 *
 * The functions in dir.c can incorrectly cache information for ".
 * before we have changed directory and this can cause file
 * lookups to fail because the current directory (.) was pointing
 * at the wrong place when it was first evaluated.
 */
no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;

/* Construct the list of include directories to search. */
construct_include_path (include_directories == 0
    ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
{
    #ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif

#elif
    starting_directory = 0;
#else
    starting_directory = current_directory;
#endif

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
            /* This makefile is standard input. Since we may re-exec and thus re-read the makefiles, we read standard input into a temporary file and read from that. */
            FILE *outfile;
            char *template;
            const char *tmpdir;

            if (stdin_nm)
                O (fatal, NILF, _("Makefile from standard input specified twice."));

            ifndef VMS
                #define DEFAULT_TMPDIR     "/sys$scratch/"
            else
                #ifdef P_tmpdir
                # define DEFAULT_TMPDIR P_tmpdir
            # else
                # define DEFAULT_TMPDIR "/tmp"
            # endif
            #endif
            #define DEFAULT_TMPFILE     "GmXXXXXX"

            if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0'))
#if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)  
/* These are also used commonly on these platforms. */  
&& ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')  
&& ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')  
#endif  

tmpdir = DEFAULT_TMPDIR;

template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);
strcpy (template, tmpdir);

ifndef HAVE_DOS_PATHS  
if (strchr ("/\", template[strlen (template) - 1]) == NULL)  
    strcat (template, "/");  
# ifdef VMS  
if (template[strlen (template) - 1] != '/')  
    strcat (template, "/");  
# endif /* !VMS */  
# endif /* !HAVE_DOS_PATHS */

strcat (template, DEFAULT_TMPFILE);
outfile = output_tmpfile (&stdin_nm, template);
if (outfile == 0)
    pfatal_with_name (_("fopen (temporary file)"));
while (!feof (stdin) && ! ferror (stdin))
{
    char buf[2048];
    unsigned int n = fread (buf, 1, sizeof (buf), stdin);
    if (n > 0 && fwrite (buf, 1, n, outfile) != n)
        pfatal_with_name (_("fwrite (temporary file)"));  
}
fclose (outfile);

/* Replace the name that read_all_makefiles will  
see with the name of the temporary file. */  
makefiles->list[i] = strcache_add (stdin_nm);

/* Make sure the temporary file will not be remade. */
{
    struct file *f = enter_file (strcache_add (stdin_nm));  
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
    /* Can't be intermediate, or it'll be removed too early for  
    make re-exec. */
    f->intermediate = 0;
    f->dontcare = 0;
#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSERVER)
/* Set up to handle children dying.  This must be done before 
   reading in the makefiles so that 'shell' function calls will work.

If we don't have a hanging wait we have to fall back to old, broken 
functionality here and rely on the signal handler and counting 
children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is 
not ignored; we need it to interrupt the read(2) of the jobserver pipe if 
we're waiting for a token.

If none of these are true, we don't need a signal handler at all.  */
{
#if defined SIGCHLD
   bsd_signal (SIGCHLD, child_handler);
#endif
#if defined SIGCLD && SIGCLD != SIGCHLD
   bsd_signal (SIGCLD, child_handler);
#endif
}
#endif
#endif
#endif

#ifdef HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred.  */
{
   sigset_t block;
   sigemptyset (&block);
   sigaddset (&block, SIGCHLD);
   if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
      pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)"); 
}
#endif

#endif
#endif

/* Let the user send us SIGUSR1 to toggle the -d flag during the run.  */
#ifdef SIGUSR1
   bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules.  */
set_default_suffixes ();
/* Define the file rules for the built-in suffix rules. These will later be converted into pattern rules. We used to do this in install_default_implicit_rules, but since that happens after reading makefiles, it results in the built-in pattern rules taking precedence over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules();

/* Define some internal and special variables. */
define_automatic_variables();

/* Define the default variables. */
define_default_variables();

default_file = enter_file (strcache_add (".DEFAULT"));
default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval. Also set up the $(-*-eval-flags-*-) variable. */
if (eval_strings)
{
  char *p, *value;
  unsigned int i;
  unsigned int len = (CSTRLEN("--eval=") + 1) * eval_strings->idx;

  for (i = 0; i < eval_strings->idx; ++i)
  {
    p = xstrdup (eval_strings->list[i]);
    len += 2 * strlen (p);
    eval_buffer (p, NULL);
    free (p);
  }

  p = value = alloca (len);
  for (i = 0; i < eval_strings->idx; ++i)
  {
    strcpy (p, "--eval=");
    p += CSTRLEN("--eval=");
    p = quote_for_env (p, eval_strings->list[i]);
    *(p++) = ' ';
  }
  p[-1] = '\0';
define_variable_cname("-*-eval-flags-.*", value, o_automatic, 0);
}
/* Read all the makefiles. */
read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
  no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
  extern int _is_unixy_shell (const char * _path);
  struct variable *shv = lookup_variable (STRING_SIZE_TUPLE("SHELL"));
  extern int unixy_shell;
  extern const char *default_shell;

  if (shv && *shv->value)
    {
      char *shell_path = recursively_expand (shv);

      if (shell_path && _is_unixy_shell (shell_path))
        unixy_shell = 1;
      else
        unixy_shell = 0;
      if (shell_path)
        default_shell = shell_path;
    }
}
#endif /* __MSDOS__ || __EMX__ */

{
  int old_builtin_rules_flag = no_builtin_rules_flag;
  int old_builtin_variables_flag = no_builtin_variables_flag;

  /* Decode switches again, for variables set by the makefile. */
  decode_env_switches (STRING_SIZE_TUPLE("GNUMAKEFLAGS"));

  /* Clear GNUMAKEFLAGS to avoid duplication. */
  define_variable_cname("GNUMAKEFLAGS", "", o_override, 0);
  decode_env_switches (STRING_SIZE_TUPLE("MAKEFLAGS"));
#if 0
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);
if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
    if (suffix_file->builtin)
        { free_dep_chain (suffix_file->deps);
            suffix_file->deps = 0;
        }
    define_variable_cname ("SUFFIXES", ",", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
    undefine_default_variables ()
}

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
# ifdef __EMX__
&& _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
# endif
#endif
/* If we have >1 slot at this point, then we're a top-level make.
Set up the jobserver.

Every make assumes that it always has one job it can run. For the
submakes it's the token they were given by their parent. For the top
make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
  /* Fill in the jobserver_auth for our children. */
  jobserver_auth = jobserver_get_auth ();

  if (jobserver_auth)
  {
    /* We're using the jobserver so set job_slots to 0. */
    master_job_slots = job_slots;
    job_slots = 0;
  }
}

/* If we're not using parallel jobs, then we don't need output sync.
   This is so people can enable output sync in GNUMAKEFLAGS or similar, but
   not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
  OUTPUT_UNSET ();
  output_close (&make_sync);
  syncing = 0;
  output_sync = OUTPUT_SYNC_NONE;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */
define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file
   depended on. Also do magic for special targets. */
snap_deps ();

/* Convert old-style suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern
rules. */
convert_to_pattern ();

/* Install the default implicit pattern rules.
   This used to be done before reading the makefiles.
   But in that case, built-in pattern rules were in the chain
   before user-defined ones, so they matched first. */
install_default_implicit_rules ();

/* Compute implicit rule limits. */
count_implicit_rule_limits ();

/* Construct the listings of directories in VPATH lists. */
build_vpath_lists ();

/* Mark files given with -o flags as very old and as having been updated
   already, and files given with -W flags as brand new (time-stamp as far
   as possible into the future). If restarts is set we'll do -W later. */
if (old_files != 0)
{
    const char **p;
    for (p = old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* Initialize the remote job module. */
remote_setup ();

/* Dump any output we've collected. */
OUTPUT_UNSET ();
output_close (&make_sync);

if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtime = 0;
    unsigned int mm_idx = 0;
    char **aargv = NULL;
    const char **nargv;
    int nargc;
    enum update_status status;

    DB (DB_BASIC, (_("Updating makefiles....\n")));

    /* Remove any makefiles we don't want to try to update.
     Also record the current modtimes so we can compare them later. */
    {
        register struct goaldep *d, *last;
        last = 0;
        d = read_files;
        while (d != 0)
        {
            struct file *f = d->file;
            if (f->double_colon)
                for (f = f->double_colon; f != NULL; f = f->prev)
                {
                    if (f->deps == 0 && f->cmds != 0)
                    {
                        /* This makefile is a :: target with commands, but
                           no dependencies. So, it will always be remade.
                           This might well cause an infinite loop, so don't
                           try to remake it. (This will only happen if
                           your makefiles are written exceptionally
                           stupidly; but if you work for Athena, that's how
                           you write your makefiles.) */

                        DB (DB_VERBOSE,
                            (_("Makefile '%s' might loop; not remaking it.\n"),
                             f->name));

                        if (last == 0)
                            read_files = d->next;
                        else
                            last->next = d->next;
                    }
                }
        }
    }
/* Free the storage. */
free_goaldep (d);

d = last == 0 ? read_files : last->next;

break;
}
}

if (f == NULL || !f->double_colon)
{
    makefile_mtime = xrealloc (makefile_mtime,
        (mm_idx+1) * sizeof (FILE_TIMESTAMP));
    makefile_mtime[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

{
    int orig_db_level = db_level;

    if (!ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}

switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked
for one of the makefiles to be remade as a target on the command
line. Since we're not actually updating anything with -q we can
treat this as "did nothing". */

        break;
    case us_none:
        /* Did nothing. */
        break;
case us_failed:
/* Failed to update. Figure out if we care. */
{
/* Nonzero if any makefile was successfully remade. */
int any_remade = 0;
/* Nonzero if any makefile we care about failed
in updating or could not be found at all. */
int any_failed = 0;
unsigned int i;
struct goaldep *d;
for (i = 0, d = read_files; d != 0; ++i, d = d->next)
{
if (d->file->updated)
{
/* This makefile was updated. */
if (d->file->update_status == us_success)
{
/* It was successfully updated. */
any_remade |= (file_mtime_no_search (d->file)
!= makefile_mtimes[i]);
}
else if (! (d->flags & RM_DONTCARE))
{
FILE_TIMESTAMP mtime;
/* The update failed and this makefile was not
from the MAKEFILES variable, so we care. */
OS (error, NILF, _("Failed to remake makefile '%s'."),
d->file->name);
mtime = file_mtime_no_search (d->file);
any_remade |= (mtime != NONEXISTENT_MTIME
&& mtime != makefile_mtimes[i]);
makefile_status = MAKE_FAILURE;
}
}
else
/* This makefile was not found at all. */
if (! (d->flags & RM_DONTCARE))
{
const char *dnm = dep_name (d);
size_t l = strlen (dnm);
/* This is a makefile we care about. See how much. */
if (d->flags & RM_INCLUDED)
/* An included makefile. We don't need to die, but we
do want to complain. */
error (NILF, l,

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Included makefile '\%s' was not found.'), dn);
else
{
  /* A normal makefile.  We must die later.  */
  error (NILF, l,
    "Makefile '\%s' was not found''), dn);
  any_failed = 1;
}

/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
goto re_exec;
if (any_failed)
die (MAKE_FAILURE);
break;
}

case us_success:
  re_exec:
  /* Updated successfully.  Re-exec ourselves. */
  remove_intermediates (0);

  if (print_data_base_flag)
    print_data_base ();

  clean_jobserver (0);

  if (makefiles != 0)
  {
    /* These names might have changed. */
    int i, j = 0;
    for (i = 1; i < argc; ++i)
      if (strneq (argv[i], "-f", 2)) /* XXX */
        if (argv[i][2] == '\0') /* This cast is OK since we never modify argv. */
          argv[++] = (char *) makefiles->list[j];
        else
          argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
        ++j;
  }

  /* Add -o option for the stdin temporary file, if necessary. */

nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
aargv = m;
    memcpy (argv, argv, argc * sizeof (char *));
aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
aargv[nargc] = 0;
    nargv = m;
}
else

    nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", "");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            (_("Couldn't change back to original directory."));
    }

++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[%u]:"), restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    putchar ("\n");
    fflush (stdout);
}

#ifndef _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME "=" , MAKELEVEL_LENGTH+1))
        {
            *p = alloca (40);
        }

#endif

}
sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#endif
#endif /* AMIGA */

else if (strneq (*p, "MAKE_RESTARTS=", CSTRLEN ("MAKE_RESTARTS=")))
{
  *p = alloca (40);
  sprintf (*p, "MAKE_RESTARTS=%s%u",
            OUTPUT_IS_TRACED () ? "-" : "", restarts);
  restarts = 0;
}
}
#else /* AMIGA */
{
  char buffer[256];

  sprintf (buffer, "%u", makelevel);
  SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

  sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
  SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
  restarts = 0;
}
#endif
/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
  char *b = alloca (40);
  sprintf (b, "MAKE_RESTARTS=%s%u",
           OUTPUT_IS_TRACED () ? "-" : "", restarts);
  putenv (b);
}

fflush (stdout);
fflush (stderr);
#endif _AMIGA
exec_command (nargv);
exit (0);
#elif defined (__EMX__)
{
  /* It is not possible to use execve() here because this
   would cause the parent process to be terminated with
   exit code 0 before the child process has been terminated.
   Therefore it may be the best solution simply to spawn the


child process including all file handles and to wait for its termination. */
int pid;
int r;
pid = child_execute_job(NULL, 1, nargs, environ);

/* is this loop really necessary? */
do {
    pid = wait(&r);
} while (pid <= 0);
/* use the exit code of the child process */
exit(WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
#else
#ifdef SET_STACK_SIZE
    /* Reset limits, if necessary. */
    if (stack_limit.rlim_cur)
        setrlimit(RLIMIT_STACK, &stack_limit);
#endif
    exec_command((char **)nargs, environ);
#endif
free(aargv);
break;
}
/* Free the makefile mtimes. */
free(makefile_mtimes);

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags(1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file(*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}
/* If there is a temp file from reading a makefile from stdin, get rid of it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name ("unlink (temporary file): ", stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                               strlen (default_goal_var->value));
        *p = '0';
        p = variable_buffer;
    }

    if (*p != '0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the
         * table and let the standard logic sort it out. */
        if (f == 0)
            {  
                struct nameseq *ns;

                ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
                if (ns)
                {
                    /* .DEFAULT_GOAL should contain one target. */
                    if (ns->next != 0)
                        O (fatal, NILF,
                            " .DEFAULT_GOAL contains more than one target");

                    f = enter_file (strcache_add (ns->name));

                    ns->name = 0; /* It was reused by enter_file(). */
                    free_ns_chain (ns);
                }
            }

    if (f)
    {
        goals = alloc_goaldep ();
        goals->file = f;
    }
}
else
    lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));

    O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets...\n")));

{
    switch (update_goal_chain (goals))
    {
        case us_none:
            /* Nothing happened. */
            /* FALLTHROUGH */
        case us_success:
            /* Keep the previous result. */
            break;
        case us_question:
            /* We are under -q and would run some commands. */
            makefile_status = MAKE_TROUBLE;
            break;
        case us_failed:
            /* Updating failed. POSIX.2 specifies exit status >1 for this; */
            makefile_status = MAKE_FAILURE;
            break;
    }

    /* If we detected some clock skew, generate one last warning */
    if (clock_skew_detected)
        O (error, NILF,
            _("warning: Clock skew detected. Your build may be incomplete.") );

    /* Exit. */
    die (makefile_status);
}

/* NOTREACHED */
exit (MAKE_SUCCESS);
/* Parsing of arguments, decoding of switches. */

static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
    (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
  char *p;
  unsigned int c;
  unsigned int i;

  if (options[0] != '\0')
    /* Already done. */
    return;

  p = options;

  /* Return switch and non-switch args in order, regardless of
   * POSIXLY_CORRECT. Non-switch args are returned as option 1. */
  *p++ = '-';

  for (i = 0; switches[i].c != '\0'; ++i)
    {
      long_options[i].name = (switches[i].long_name == 0 ? "" :
        switches[i].long_name);
      long_options[i].flag = 0;
      long_options[i].val = switches[i].c;
      if (short_option (switches[i].c))
        *p++ = switches[i].c;
      switch (switches[i].type)
        {
        case flag:
        case flag_off:
        case ignore:
          long_options[i].has_arg = no_argument;
        break;

        case string:
        case strlist:
        case filename:
        case positive_int:
        case floating:

  ...
if (short_option (switches[i].c))
    *p++ = ':';
if (switches[i].noarg_value != 0)
{
    if (short_option (switches[i].c))
        *p++ = ':';
    long_options[i].has_arg = optional_argument;
}
else
    long_options[i].has_arg = required_argument;
break;
}
}
*p = \0;
for (c = 0; c < (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]));
    ++c)
    long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
    struct variable *v;

    if (arg[0] == '-' && arg[1] == '\0')
        /* Ignore plain '-' for compatibility. */
        return;

#ifdef VMS
{
    /* VMS DCL quoting can result in foo="bar baz" showing up here.
       Need to remove the double quotes from the value. */
    char * eq_ptr;
    char * new_arg;
    eq_ptr = strchr (arg, '\=');
    if ((eq_ptr != NULL) && (eq_ptr[1] == '\0'))
    {
        int len;
        int seg1;
        int seg2;
        len = strlen(arg);
        new_arg = alloca(len);
        seg1 = eq_ptr - arg + 1;
        strncpy(new_arg, arg, (seg1));
        return;
    }
#endif

seg2 = len - seg1 - 1;
strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
new_arg[seg1 + seg2] = 0;
if (new_arg[seg1 + seg2 - 1] == "")
    new_arg[seg1 + seg2 - 1] = 0;
arg = new_arg;
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition. If we don't already have this
one, record a pointer to the variable for later use in
define_makeflags. */
struct command_variable *cv;

for (cv = command_variables; cv != 0; cv = cv->next)
    if (cv->variable == v)
        break;

if (! cv)
{
    cv = xmalloc (sizeof (*cv));
    cv->variable = v;
    cv->next = command_variables;
    command_variables = cv;
}
else if (! env)
{
    /* Not an option or variable definition; it must be a goal
    target! Enter it as a file and add it to the dep chain of
goals. */
    struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
    f->cmd_target = 1;

    if (goals == 0)
    {
        goals = alloc_goaldep ();
        lastgoal = goals;
    }
    else
    {
        lastgoal->next = alloc_goaldep ();
        lastgoal = lastgoal->next;
    }
lastgoal->file = f;

{
    /* Add this target name to the MAKECMDGOALS variable. */
    struct variable *gv;
    const char *value;

    gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
    if (gv == 0)
        value = f->name;
    else
    {
        /* Paste the old and new values together */
        unsigned int oldlen, newlen;
        char *vp;

        oldlen = strlen (gv->value);
        newlen = strlen (f->name);
        vp = alloca (oldlen + 1 + newlen + 1);
        memcpy (vp, gv->value, oldlen);
        vp[oldlen] = ' ';    
        memcpy (&vp[oldlen + 1], f->name, newlen + 1);
        value = vp;
    }
    define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version ();

    usageto = bad ? stderr : stdout;

    fprintf (usageto, _("Usage: %s [options] [target] ...
"), program);

    for (cpp = usage; *cpp; ++cpp)
        fputs (_(*cpp), usageto);

    if (!remote_description || *remote_description ==)
fprintf (usageto, _("This program built for %s\n"), make_host);
else
   fprintf (usageto, _("This program built for %s (%s)\n"),
         make_host, remote_description);

fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGC and ARGV.  
   They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
   int bad = 0;
   register const struct command_switch *cs;
   register struct stringlist *sl;
   register int c;

   /* getopt does most of the parsing for us.  
      First, get its vectors set up. */

   init_switches ();

   /* Let getopt produce error messages for the command line,  
      but not for options from the environment. */
   opterr = !env;
   /* Reset getopt's state. */
   optind = 0;

   while (optind < argc)
   {
      const char *coptarg;

      /* Parse the next argument. */
      c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
      coptarg = optarg;
      if (c == EOF)
         /* End of arguments, or "--" marker seen. */
         break;
      else if (c == 1)
         /* An argument not starting with a dash. */
         handle_non_switch_argument (coptarg, env);
      else if (c == '?')
         /* Bad option. We will print a usage message and die later.  
            But continue to parse the other options so the user can  
            see all he did wrong. */
         bad = 1;
else
for (cs = switches; cs->c != \0; ++cs)
    if (cs->c == c)
        {
            /* Whether or not we will actually do anything with
             this switch. We test this individually inside the
             switch below rather than just once outside it, so that
             options which are to be ignored still consume args. */
            int doit = !env || cs->env;

            switch (cs->type)
            {
                default:
                    abort();

                case ignore:
                    break;

                case flag:
                case flag_off:
                    if (doit)
                        *(int *) cs->value_ptr = cs->type == flag;
                    break;

                case string:
                case strlist:
                case filename:
                    if (!doit)
                        break;

                    if (! coptarg)
                        coptarg = xstrdup (cs->noarg_value);
                    else if (*coptarg == '\0')
                        {
                            char opt[2] = "c";
                            const char *op = opt;

                            if (short_option (cs->c))
                                opt[0] = cs->c;
                            else
                                op = cs->long_name;

                            error (NILF, strlen (op),
                                "("_("the \"%s\" option requires a non-empty string argument"),
                                short_option (cs->c) ? "-" : "--", op);
                            bad = 1;
                            break;
                        }
        }
if (cs->type == string)
{
    char **val = (char **)cs->value_ptr;
    free (*val);
    *val = xstrdup (coptarg);
    break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
    sl = xmalloc (sizeof (struct stringlist));
    sl->max = 5;
    sl->idx = 0;
    sl->list = xmalloc (5 * sizeof (char *));
    *(struct stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
    sl->max += 5;
    /* MSVC erroneously warns without a cast here. */
    sl->list = xrealloc ((void *)sl->list,
                       sl->max * sizeof (char *));
}
if (cs->type == filename)
    sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
    sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
    /* See if we have an option argument; if we do require that
    it's all digits, not something like "10foo". */
    if (coptarg == 0 && argc > optind)
    {
        const char *cp;
        for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
        {
            if (cp[0] == '0')
                coptarg = argv[optind++];
        }
    }
    if (!doit)
        break;

    if (coptarg)
{ 
    int i = atoi (coptarg);
    const char *cp;

    /* Yes, I realize we're repeating this in some cases. */
    for (cp = coptarg; ISDIGIT (cp[0]); ++cp) ;

    if (i < 1 || cp[0] != '0')
    {
        error (NILF, 0,
               """the '-%c' option requires a positive integer argument""",
               cs->c);
        bad = 1;
    } else
    *(unsigned int *) cs->value_ptr = i;
}
else
*(unsigned int *) cs->value_ptr
    = *(unsigned int *) cs->noarg_value;
break;

#ifndef NO_FLOAT
    case floating:
        if (coptarg == 0 && optind < argc
            && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
            coptarg = argv[optind++];

        if (doit)
            *(double *) cs->value_ptr
                = (coptarg != 0 ? atof (coptarg)
                   : *(double *) cs->noarg_value);
        break;
#endif
}
/* We've found the switch. Stop looking. */
break;
}

/* There are no more options according to getting getopt, but there may
be some arguments left. Since we have asked for non-option arguments
to be returned in order, this only happens when there is a "--"
argument to prevent later arguments from being options. */
while (optind < argc)
handle_non_switch_argument(argv[optind++], env);

if (!env && (bad || print_usage_flag))
{
    print_usage(bad);
    die(bad ? MAKE_FAILURE : MAKE_SUCCESS);
}

/* If there are any options that need to be decoded do it now. */
decode_debug_flags();
decode_output_sync_flags();
}

/* Decode switches from environment variable ENVAR (which is LEN chars long).
   We do this by chopping the value into a vector of words, prepending a
   dash to the first word if it lacks one, and passing the vector to
decode_switches. */

static void
decode_env_switches(const char *envar, unsigned int len)
{
    char *varref = alloca(2 + len + 2);
    char *value, *p, *buf;
    int argc;
    const char **argv;

    /* Get the variable's value. */
    varref[0] = '$';
    varref[1] = '(';
    memcpy(&varref[2], envar, len);
    varref[2 + len] = ')';
    varref[2 + len + 1] = 0;
    value = variable_expand(varref);

    /* Skip whitespace, and check for an empty value. */
    NEXT_TOKEN(value);
    len = strlen(value);
    if (len == 0)
        return;

    /* Allocate a vector that is definitely big enough. */
    argv = alloca((1 + len + 1) * sizeof(char *));

    /* getopt will look at the arguments starting at ARGV[1].
       Prepend a spacer word. */
    argv[0] = 0;
    argv[1] = 0;
/* We need a buffer to copy the value into while we split it into words and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '-';
p = buf + 1;
argv[argc] = p;
while (*value != \0)
{
    if (*value == \\ && value[1] != \0)                      /* Skip the backslash. */
        ++value;
    else if (ISBLANK (*value))                      
    {                                          /* End of the word. */
        *p++ = \0;
        argv[++argc] = p;
        do
            ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p = \0;
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=') == 0)  /* The first word doesn't start with a dash and isn't a variable definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with no magic by decode_env_switches; also double dollar signs to avoid variable expansion in make itself. Write the result into OUT, returning the address of the next character to be written. Allocating space for OUT twice the length of IN is always sufficient. */

static char *quote_for_env (char *out, const char *in)
{
    while (*in != \0)
    {
        if (*in == $)
            *out++ = $;
        *out++ = *in;
    }
    *out++ = \0;
    return out;
}
else if (ISBLANK (*in) || *in == '\n')
    *out++ = '\n';
    *out++ = *in++;
}

return out;
}

/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
   command switches. Include options with args if ALL is nonzero.
   Don't include options with the 'no_makefile' flag set if MAKEFILE. */

static struct variable *
define_makeflags (int all, int makefile)
{
    const char ref[] = "$(MAKEOVERRIDES)";
    const char posixref[] = "$(MAKEOVERRIDES)";
    const char evalref[] = "$(MAKEOVERRIDES)";
    const struct command_switch *cs;
    char *flagstring;
    char *p;

    /* We will construct a linked list of 'struct flag's describing
       all the flags which need to go in MAKEFLAGS. Then, once we
       know how many there are and their lengths, we can put them all
       together in a string. */

    struct flag
    {
        struct flag *next;
        const struct command_switch *cs;
        const char *arg;
    };
    struct flag *flags = 0;
    struct flag *last = 0;
    unsigned int flagslen = 0;

    #define ADD_FLAG(ARG, LEN) \
    do {                                                                        
        struct flag *new = alloca (sizeof (struct flag));                      
        new->cs = cs;                                                          
        new->arg = (ARG);                                                     
        new->next = 0;                                                         
        if (! flags)                                                          
            flags = new;                                                      
        else                                                                  
            last->next = new;                                                 
    last = new;                                                               
        if (new->arg == 0)                                                    
    \
    } while (0);

    return flagstring;
}
/* Just a single flag letter: " -x" */
flagslen += 3;
else
/* " -xfoo", plus space to escape "foo". */
flagslen += 1 + 1 + 1 + (3 * (LEN));
if (!short_option (cs->c))
/* This switch has no single-letter version, so we use the long. */
flagslen += 2 + strlen (cs->long_name);
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
if (cs->toenv && (!makefile || !cs->no_makefile))
switch (cs->type)
{
    case ignore:
        break;

    case flag:
    case flag_off:
        if (((int *) cs->value_ptr) != (cs->type == flag_off)
            && (cs->default_value == 0
                || *(int *) cs->value_ptr != *(int *) cs->default_value))
            ADD_FLAG (0, 0);
        break;

    case positive_int:
        if (all)
        {
            if (((cs->default_value != 0
                && (*(unsigned int *) cs->value_ptr
                    == *(unsigned int *) cs->default_value)))
                break;
            else if (cs->noarg_value != 0
                && (*(unsigned int *) cs->value_ptr ==
                    *(unsigned int *) cs->noarg_value))
                ADD_FLAG ("", 0); /* Optional value omitted; see below. */
            else
            {
                char *buf = alloca (30);
                sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
                ADD_FLAG (buf, strlen (buf));
            }
        }
        else
            break;

    ifndef NO_FLOAT
        case floating:
            if (all)

    endif

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{ if (cs->default_value != 0
   && *(double *) cs->value_ptr
   == *(double *) cs->default_value)
   break;
else if (cs->noarg_value != 0
   && *(double *) cs->value_ptr
   == *(double *) cs->noarg_value)
   ADD_FLAG ("", 0); /* Optional value omitted; see below. */
   else
   {
   char *buf = alloca (100);
   sprintf (buf, "%g", *(double *) cs->value_ptr);
   ADD_FLAG (buf, strlen (buf));
   }
} break;
#endif

case string:
  if (all)
  {
  p = *((char **)cs->value_ptr);
  if (p)
   ADD_FLAG (p, strlen (p));
  }
  break;

  case filename:
  case strlist:
   if (all)
   {
   struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
   if (sl != 0)
   {
   unsigned int i;
   for (i = 0; i < sl->idx; ++i)
   ADD_FLAG (sl->list[i], strlen (sl->list[i]));
   }
   }
   break;

  default:
   abort ()
   }

#undef  ADD_FLAG
/* Four more for the possible " -- ", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '\-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = '\-';
    *p++ = '\-';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = '\-';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }
    /* An omitted optional argument has an ARG of ".". */
    if (flags->arg && flags->arg[0] != '\0')
    {
        if (!short_option (flags->cs->c))
        {
            /* Long options require '='. */
            *p++ = '=';
            p = quote_for_env (p, flags->arg);
        }
        flags = flags->next;
    }

    /* If no flags at all, get rid of the initial dash. */
    if (p == &flagstring[1])
flagstring[0] = '0';
p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial empty dash. Since MFLAGS is not parsed for flags, there is no reason to override any makefile redefinition. */
define_variable_cname ("MFLAGS",
    flagstring + (flagstring[0] == '-' && flagstring[1] == ' ' ? 2 : 0),
o_env, 1);

/* Write a reference to -*-eval-flags-*-, which contains all the --eval flag options. */
if (eval_strings)
{
    *p++ = ' ';  
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the command-line variable definitions. Separate the variables from the switches with a "--" arg. */
    strcpy (p, " -- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcpy (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    }
    else
    {
        memcpy (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
    ++flagstring;

/* This used to use o_env, but that lost when a makefile defined MAKEFLAGS. */
Makefiles set MAKEFLAGS to add switches, but we still want to redefine its value with the full set of switches. Then we used o_file, but that lost when users added -e, causing a previous MAKEFLAGS env. var. to take precedence over the new one. Of course, an override or command definition will still take precedence. */
return define_variable_cname("MAKEFLAGS", flagstring,
    env_overrides ? o_env_override : o_file, 1);
}

/* Print version information. */

static void
print_version (void)
{
    static int printed_version = 0;
    const char *precede = print_data_base_flag ? "# " : "";

    if (printed_version)
        /* Do it only once. */
        return;

    printf ("%sGNU Make %s\n", precede, version_string);
    if (!remote_description || *remote_description == '\0')
        printf (_("%sBuilt for %s\n"), precede, make_host);
    else
        printf (_("%sBuilt for %s (%s)\n"),
            precede, make_host, remote_description);

    /* Print this untranslated. The coding standards recommend translating the
     * (C) to the copyright symbol, but this string is going to change every
     * year, and none of the rest of it should be translated (including the
     * word "Copyright"), so it hardly seems worth it. */

    printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n", precede);

    printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n\n%sThis is free software: you are free to change and redistribute it\n\n%sThere is NO WARRANTY, to the extent permitted by law.\n"),
        precede, precede, precede);

    printed_version = 1;

    /* Flush stdout so the user doesn’t have to wait to see the
     * version information while make thinks about things. */
    fflush (stdout);
static void
print_data_base (void)
{
    time_t when = time ((time_t *) 0);

    print_version ();

    printf (_("\n# Make data base, printed on %s"), ctime (&when));

    print_variable_data_base ();
    print_dir_data_base ();
    print_rule_data_base ();
    print_file_data_base ();
    print_vpath_data_base ();
    strcache_print_stats ("#"); "  

    when = time ((time_t *) 0);
    printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
    /* Sanity: have we written all our jobserver tokens back? If our
     * exit status is 2 that means some kind of syntax error; we might not
     * have written all our tokens so do that now. If tokens are left
     * after any other error code, that's bad. */

    if (jobserver_enabled() && jobserver_tokens)
    {
        if (status != 2)
            ON (error, NILF, "INTERNAL: Exiting with %u jobserver tokens (should be 0)!", jobserver_tokens);
        else
            /* Don't write back the "free" token */
            while (--jobserver_tokens)
                jobserver_release (0);
    }

    /* Sanity: If we're the master, were all the tokens written back? */

    if (master_job_slots)
unsigned int tokens = 1 + jobserver_acquire_all();

if (tokens != master_job_slots)
    ONN(error, NILF,
        "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
        tokens, master_job_slots);

reset_jobserver();
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
            print_data_base();

        if (verify_flag)
            verify_file_data_base();

        clean_jobserver (status);
    }
}
if (output_context)
{
    /* die() might be called in a recipe output context due to an
    $(error ...) function. */
    output_close(output_context);

    if (output_context != &make_sync)
        output_close(&make_sync);

    OUTPUT_UNSET();
}

output_close(NULL);

/* Try to move back to the original directory. This is essential on
MS-DOS (where there is really only one process), and on Unix it
puts core files in the original directory instead of the -C
directory. Must wait until after remove_intermediates(), or unlinks
of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don’t care: shut up GCC. */
    int _x UNUSED;
    _x = chdir(directory_before_chdir);
}

exit(status);
}

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1.207 mdadm 4.0 :r0

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 * Author: Neil Brown
 * Email: <neilb@suse.de>
 *
 * Additions for bitmap and write-behind RAID options, Copyright (C) 2003-2004,
 * Paul Clements, SteelEye Technology, Inc.
 */

#include "mdadm.h"
#include "md_p.h"
#include <ctype.h>

static int scan_assemble(struct supertype *ss,
 struct context *c,
 struct mddev_ident *ident);
static int misc_scan(char devmode, struct context *c);
static int stop_scan(int verbose);
static int misc_list(struct mddev_dev *devlist,
 struct mddev_ident *ident,
 char *dump_directory,
 struct supertype *ss, struct context *c);
const char Name[] = "mdadm";
int main(int argc, char *argv[])
{
    int mode = 0;
    int opt;
    int option_index;
    int rv;
    int i;

    unsigned long long array_size = 0;
    unsigned long long data_offset = INVALID_SECTORS;
    struct mddev_ident ident;
    char *configfile = NULL;
    int devmode = 0;
    int bitmap_fd = -1;
    struct mddev_dev *devlist = NULL;
    struct mddev_dev **devlistend = &devlist;
    struct mddev_dev *dv;
    int devs_found = 0;
    char *symlinks = NULL;
    int grow_continue = 0;
    /* autof indicates whether and how to create device node.
* bottom 3 bits are style. Rest (when shifted) are number of parts
* 0 - unset
* 1 - don't create (no)
* 2 - if is_standard, then create (yes)
* 3 - create as 'md' - reject is_standard mdp (md)
* 4 - create as 'mdp' - reject is_standard md (mdp)
* 5 - default to md if not is_standard (md in config file)
* 6 - default to mdp if not is_standard (part, or mdp in config file)
*/
    struct context c = {
        .require_homehost = 1,
    };
    struct shape s = {
        .journaldisks = 0,
        .level = UnSet,
        .layout = UnSet,
        .bitmap_chunk = UnSet,
    };

    char sys_hostname[256];
    char *mailaddr = NULL;
    char *program = NULL;
    int increments = 20;
    int daemonise = 0;
    char *pidfile = NULL;
    int oneshot = 0;
    int spare_sharing = 1;
struct supertype *ss = NULL;
enum flag_mode writemostly = FlagDefault;
enum flag_mode failfast = FlagDefault;
char *shortopt = short_options;
int dosyslog = 0;
int rebuild_map = 0;
char *remove_path = NULL;
char *udev_filename = NULL;
char *dump_directory = NULL;

int print_help = 0;
FILE *outf;

int mdfd = -1;

srandom(time(0) ^ getpid());

ident.uuid_set=0;
ident.level = UnSet;
ident.raid_disks = UnSet;
ident.super_minor= UnSet;
ident.devices=0;
ident.spare_group = NULL;
ident.autof = 0;
ident.st = NULL;
ident.bitmap_fd = -1;
ident.bitmap_file = NULL;
ident.name[0] = 0;
ident.container = NULL;
ident.member = NULL;

while ((option_index = -1) ,
   (opt=getopt_long(argc, argv,
shortopt, long_options,
&option_index)) != -1) {
   int newmode = mode;
   /* firstly, some mode-independent options */
   switch(opt) {
   case HelpOptions:
      print_help = 2;
      continue;
   case 'h':
      print_help = 1;
      continue;
   case 'V':
      fputs(Version, stderr);
      exit(0);
case 'v': c.verbose++; continue;

case 'q': c.verbose--; continue;

case 'b':
    if (mode == ASSEMBLE || mode == BUILD ||
        mode == CREATE || mode == GROW ||
        mode == INCREMENTAL || mode == MANAGE)
        break; /* b means bitmap */
    case Brief:
        c.brief = 1;
        continue;

case 'Y': c.export++; continue;

case HomeHost:
    if (strcasecmp(optarg, "<ignore>") == 0)
        c.require_homehost = 0;
    else
        c.homehost = optarg;
        continue;

case OffRootOpt:
    /* Silently ignore old option */
    continue;

case Prefer:
    if (c.prefer)
        free(c.prefer);
    if (asprintf(&c.prefer, "/%s/", optarg) <= 0)
        c.prefer = NULL;
        continue;

case ':':
case '?':
    fputs(Usage, stderr);
    exit(2);
}
/* second, figure out the mode.  
* Some options force the mode.  Others 
* set the mode if it isn't already  
*/
switch(opt) {
case ManageOpt:
    newmode = MANAGE;
    shortopt = short_bitmap_options;
    break;
    case 'a':
    case Add:
    case AddSpare:
    case AddJournal:
    case 'r':
    case Remove:
    case Replace:
    case With:
    case 'i':
    case Fail:
    case ReAdd: /* re-add */
    case ClusterConfirm:
        if (!mode) {
            newmode = MANAGE;
            shortopt = short_bitmap_options;
        }
        break;

    case 'A': newmode = ASSEMBLE;
    shortopt = short_bitmap_auto_options;
    break;
    case 'B': newmode = BUILD;
    shortopt = short_bitmap_auto_options;
    break;
    case 'C': newmode = CREATE;
    shortopt = short_bitmap_auto_options;
    break;
    case 'F': newmode = MONITOR;
    break;
    case 'G': newmode = GROW;
    shortopt = short_bitmap_options;
    break;
    case 'I': newmode = INCREMENTAL;
    shortopt = short_bitmap_auto_options;
    break;
    case AutoDetect:
    newmode = AUTODETECT;
    break;

    case MiscOpt:
    case 'D':
    case 'E':
    case 'X':
    case 'Q':
case ExamineBB:
case Dump:
case Restore:
case Action:
newmode = MISC;
break;

case 'R':
case 'S':
case 'o':
case 'w':
case 'W':
case WaitOpt:
case Waitclean:
case DetailPlatform:
case KillSubarray:
case UpdateSubarray:
case UdevRules:
case KillOpt:
if (!mode)
newmode = MISC;
break;

case NoSharing:
newmode = MONITOR;
break;
}
if (mode && newmode == mode) {
/* everybody happy ! */
} else if (mode && newmode != mode) {
/* not allowed.. */
pr_err("");
if (option_index >= 0)
fprintf(stderr, "--%s", long_options[option_index].name);
else
fprintf(stderr, ",%c", opt);
fprintf(stderr, " would set mdadm mode to \"%s\", but it is already set to \"%s\".\n",
map_num(modes, newmode),
map_num(modes, mode));
exit(2);
} else if (!mode && newmode) {
mode = newmode;
if (mode == MISC && devs_found) {
pr_err("No action given for %s in --misc mode\n",
devlist->devname);
cont_err("Action options must come before device names\n");
exit(2);
}
} else {
/* special case of -c --help */
if ((opt == 'c' || opt == ConfigFile) &&
    (strcmp(optarg, "--h", 3) == 0 ||
    strcmp(optarg, "-h", 2) == 0)) {
    fputs(Help_config, stdout);
    exit(0);
}

/* If first option is a device, don't force the mode yet */
if (opt == 1) {
    if (devs_found == 0) {
        dv = xmalloc(sizeof(*dv));
        dv->devname = optarg;
        dv->disposition = devmode;
        dv->writemostly = writemostly;
        dv->failfast = failfast;
        dv->used = 0;
        dv->next = NULL;
        *devlistend = dv;
        devlistend = &dv->next;

        devs_found++;
        continue;
    }
/* No mode yet, and this is the second device ... */
    pr_err("An option must be given to set the mode before a second device\n"
            "\n            (\%s) is listed\n", optarg);
    exit(2);
}
    if (option_index >= 0)
        pr_err("--%s", long_options[option_index].name);
    else
        pr_err("-%c", opt);
    fprintf(stderr, " does not set the mode, and so cannot be the first option.\n");
    exit(2);
}

/* if we just set the mode, then done */
switch(opt) {
    case ManageOpt:
    case MiscOpt:
    case 'A':
    case 'B':
    case 'C':
    case 'F':
    case 'G':
    case 'T':
case AutoDetect:
    continue;
}
if (opt == 1) {
    /* an undecorated option - must be a device name. */
    *
    if (devs_found > 0 && devmode == DetailPlatform) {
        pr_err("controller may only be specified once. %s ignored\n", optarg);
        continue;
    }
    if (devs_found > 0 && mode == MANAGE && !devmode) {
        pr_err("Must give one of -a/-r/-f for subsequent devices at %s\n", optarg);
        exit(2);
    }
    if (devs_found > 0 && mode == GROW && !devmode) {
        pr_err("Must give -a/--add for devices to add: %s\n", optarg);
        exit(2);
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = devmode;
    dv->writemostly = writemostly;
    dv->failfast = failfast;
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
    devs_found++;
    continue;
}
/* We've got a mode, and opt is now something else which */
* could depend on the mode */
#define O(a,b) ((a<<16)|b)
switch (O(mode,opt)) {
    case O(GROW,'c'):
    case O(GROW,ChunkSize):
    case O(CREATE,'c'):
    case O(CREATE,ChunkSize):
    case O(BUILD,'c'): /* chunk or rounding */
    case O(BUILD,ChunkSize): /* chunk or rounding */
        if (s.chunk) {
            pr_err("chunk/rounding may only be specified once. Second value is %s\n", optarg);
            exit(2);
s.chunk = parse_size(optarg);
if (s.chunk == INVALID_SECTORS ||
    s.chunk < 8 || (s.chunk&1)) {
    pr_err("invalid chunk/rounding value: %s
", optarg);
    exit(2);
}

/* Convert sectors to K */
s.chunk /= 2;
continue;

/* In the case of the option to set the metadata superblock information */
if (ss) {
    pr_err("metadata information already given\n");
    exit(2);
}
for(i=0; !ss && superlist[i]; i++)
    ss = superlist[i]->match_metadata_desc(optarg);

if (!ss) {
    pr_err("unrecognised metadata identifier: %s
", optarg);
    exit(2);
}
continue;

/* In the case of options to set the write-mostly flag */
writemostly = FlagSet;
continue;

/* In the case of options to clear the write-mostly flag */
writemostly = FlagClear;
continue;

/* In the case of options to fail fast */
failfast = FlagSet;
continue;
case O(MANAGE, NoFailFast):
failfast = FlagClear;
continue;

case O(GROW,'z'):
case O(CREATE,'z'):
case O(BUILD,'z'): /* size */
if (s.size > 0) {
pr_err("size may only be specified once. Second value is %s.
", optarg);
exit(2);
}
if (strcmp(optarg, "max") == 0)
s.size = MAX_SIZE;
else {
    s.size = parse_size(optarg);
    if (s.size == INVALID_SECTORS || s.size < 8) {
        pr_err("invalid size: %s
", optarg);
        exit(2);
    }
/* convert sectors to K */
s.size /= 2;
}
continue;

case O(GROW,'Z'): /* array size */
if (array_size > 0) {
    pr_err("array-size may only be specified once. Second value is %s.
", optarg);
    exit(2);
}
if (strcmp(optarg, "max") == 0)
    array_size = MAX_SIZE;
else {
    array_size = parse_size(optarg);
    if (array_size == 0 ||
        array_size == INVALID_SECTORS) {
        pr_err("invalid array size: %s
", optarg);
        exit(2);
    }
}
continue;

case O(CREATE,DataOffset):
case O(GROW,DataOffset):
if (data_offset != INVALID_SECTORS) {
    pr_err("data-offset may only be specified once. Second value is %s.
", optarg);
    exit(2);
}
if (mode == CREATE && strcmp(optarg, "variable") == 0) 
data_offset = VARIABLE_OFFSET;
else 
data_offset = parse_size(optarg);
if (data_offset == INVALID_SECTORS) {
    pr_err("invalid data-offset: %s\n", optarg);
    exit(2);
}
continue;

case O(GROW,'l'):
case O(CREATE,'l'):
case O(BUILD,'l'): /* set raid level*/
if (s.level != UnSet) {
    pr_err("raid level may only be set once. Second value is %s\n", optarg);
    exit(2);
}
s.level = map_name(pers, optarg);
if (s.level == UnSet) {
    pr_err("invalid raid level: %s\n", optarg);
    exit(2);
}
if (s.level != 0 && s.level != LEVEL_LINEAR &&
    s.level != 1 && s.level != LEVEL_MULTIPATH &&
    s.level != LEVEL_FAULTY && s.level != 10 &&
    mode == BUILD) {
    pr_err("Raid level %s not permitted with --build\n", optarg);
    exit(2);
}
if (s.sparedisks > 0 && s.level < 1 && s.level >= -1) {
    pr_err("raid level %s is incompatible with spare-devices setting\n", optarg);
    exit(2);
}
ident.level = s.level;
continue;

case O(GROW,'p'): /* new layout */
case O(GROW, Layout):
if (s.layout_str) {
    pr_err("layout may only be sent once. Second value was %s\n", optarg);
    exit(2);
}
s.layout_str = optarg;
/* 'Grow' will parse the value */
continue;

case O(CREATE,'p'): /* raid5 layout */
case O(CREATE,Layout):
case O(BUILD,'p'): /* faulty layout */
case O(BUILD,Layout):
if (s.layout != UnSet) {
    pr_err("layout may only be sent once. Second value was %s\n", optarg);
    exit(2);
}
switch(s.level) {
default:
    pr_err("layout not meaningful for %s arrays.\n", map_num(pers, s.level));
    exit(2);
    case UnSet:
    pr_err("raid level must be given before layout.\n");
    exit(2);

    case 5:
    s.layout = map_name(r5layout, optarg);
    if (s.layout==UnSet) {
        pr_err("layout %s not understood for raid5.\n", optarg);
        exit(2);
    }
    break;
    case 6:
    s.layout = map_name(r6layout, optarg);
    if (s.layout==UnSet) {
        pr_err("layout %s not understood for raid6.\n", optarg);
        exit(2);
    }
    break;

    case 10:
    s.layout = parse_layout_10(optarg);
    if (s.layout < 0) {
        pr_err("layout for raid10 must be 'nNN', 'oNN' or 'fNN' where NN is a number, not %s\n", optarg);
        exit(2);
    }
    break;
    case LEVEL_FAULTY:
    /* Faulty
     * modeNNN
     */
    s.layout = parse_layout_faulty(optarg);
if (s.layout == -1) {
    pr_err("layout %s not understood for faulty:\n", optarg);
    exit(2);
}
break;
}
continue;

case O(CREATE, AssumeClean):
case O(BUILD, AssumeClean): /* assume clean */
case O(GROW, AssumeClean):
s.assume_clean = 1;
continue;

case O(GROW, 'n'):
case O(CREATE, 'n'):
case O(BUILD, 'n'): /* number of raid disks */
if (s.raiddisks)
    pr_err("raid-devices set twice: %d and %s\n", s.raiddisks, optarg);
exit(2);
}
s.raiddisks = parse_num(optarg);
if (s.raiddisks <= 0) {
    pr_err("invalid number of raid devices: %s\n", optarg);
    exit(2);
}
ident.raid_disks = s.raiddisks;
continue;
case O(ASSEMBLE, Nodes):
case O(GROW, Nodes):
case O(CREATE, Nodes):
c.nodes = parse_num(optarg);
if (c.nodes <= 0) {
    pr_err("invalid number for the number of cluster nodes: %s\n", optarg);
    exit(2);
}
continue;
case O(CREATE, ClusterName):
case O(ASSEMBLE, ClusterName):
c.homecluster = optarg;
if (strlen(c.homecluster) > 64) {
    pr_err("Cluster name too big.\n");
    exit(ERANGE);
}
case O(CREATE,'x'): /* number of spare (eXtra) disks */
    if (s.sparedisks) {
        pr_err("spare-devices set twice: %d and %s\n",
               s.sparedisks, optarg);
        exit(2);
    }
    if (s.level != UnSet && s.level <= 0 && s.level >= -1) {
        pr_err("spare-devices setting is incompatible with raid level %d\n",
               s.level);
        exit(2);
    }
    s.sparedisks = parse_num(optarg);
    if (s.sparedisks < 0) {
        pr_err("invalid number of spare-devices: %s\n",
               optarg);
        exit(2);
    }
    continue;

    case O(CREATE,'a'):
    case O(CREATE,Auto):
    case O(BUILD,'a'):
    case O(BUILD,Auto):
    case O(INCREMENTAL,'a'):
    case O(INCREMENTAL,Auto):
    case O(ASSEMBLE,'a'):
    case O(ASSEMBLE,Auto): /* auto-creation of device node */
        c.autof = parse_auto(optarg, "--auto flag", 0);
        continue;

    case O(CREATE,Symlinks):
    case O(BUILD,Symlinks):
    case O(ASSEMBLE,Symlinks): /* auto creation of symlinks in /dev to /dev/md */
        symlinks = optarg;
        continue;

    case O(BUILD,'f'):
    case O(BUILD,Force):
    case O(GROW,'f'):
    case O(GROW,Force):
    case O(CREATE,'f'):
    case O(CREATE,Force):
    case O(ASSEMBLE,'f'):
    case O(ASSEMBLE,Force):
    case O(MISC,'f'):
    case O(MISC,Force):
    case O(MANAGE,Force):
        /* add device which is too large */
c.force=1;
continue;

/* now for the Assemble options */
case O(ASSEMBLE, FreezerReshape): /* Freeze reshape during */
  * initrd phase */
case O(INCREMENTAL, FreezerReshape):
c  c.freeze reshape = 1;
continue;
case O(CREATE,'u'): /* uuid of array */
case O(ASSEMBLE,'u'): /* uuid of array */
if (ident.uuid_set) {
  pr_err("uuid cannot be set twice. Second value %s\n", optarg);
  exit(2);
}
if (parse_uuid(optarg, ident.uuid))
  ident.uuid_set = 1;
else {
  pr_err("Bad uuid: %s\n", optarg);
  exit(2);
}
continue;

case O(CREATE,'N'):
case O(ASSEMBLE,'N'):
case O(MISC,'N'):
if (ident.name[0]) {
  pr_err("name cannot be set twice. Second value %s\n", optarg);
  exit(2);
}
if (mode == MISC && !c.subarray) {
  pr_err("-N/--name only valid with --update-subarray in misc mode\n");
  exit(2);
}
if (strlen(optarg) > 32) {
  pr_err("name '%s' is too long, 32 chars max.\n", optarg);
  exit(2);
}
strcpy(ident.name, optarg);
continue;

case O(ASSEMBLE,'m'): /* super-minor for array */
case O(ASSEMBLE,SuperMinor):
if (ident.super_minor != UnSet) {
  pr_err("super-minor cannot be set twice. Second value: %s\n", optarg);
  exit(2);
}
if (strcmp(optarg, "dev") == 0)
ident.super_minor = -2;
else {
    ident.super_minor = parse_num(optarg);
    if (ident.super_minor < 0) {
        pr_err("Bad super-minor number: %s.
", optarg);
        exit(2);
    }
    continue;
}

case O(ASSEMBLE,'o'):
case O(MANAGE,'o'):
case O(CREATE,'o'):
c.readonly = 1;
continue;

continue;

case O(ASSEMBLE,'U'): /* update the superblock */
case O(MISC,'U'):
    if (c.update) {
        pr_err("Can only update one aspect of superblock, both %s and %s given.
", c.update, optarg);
        exit(2);
    }
    if (mode == MISC && !c.subarray) {
        pr_err("Only subarrays can be updated in misc mode
");
        exit(2);
    }
    c.update = optarg;
    if (strcmp(c.update, "sparc2.2") == 0) continue;
    if (strcmp(c.update, "super-minor") == 0) continue;
    if (strcmp(c.update, "summaries") == 0) continue;
    if (strcmp(c.update, "resync") == 0) continue;
    if (strcmp(c.update, "uuid") == 0) continue;
    if (strcmp(c.update, "name") == 0) continue;
    if (strcmp(c.update, "homehost") == 0) continue;
    if (strcmp(c.update, "home-cluster") == 0) continue;
    if (strcmp(c.update, "nodes") == 0) continue;
    if (strcmp(c.update, "devicesize") == 0) continue;
if (strcmp(c.update, "no-bitmap") == 0)
continue;
if (strcmp(c.update, "bbl") == 0)
continue;
if (strcmp(c.update, "no-bbl") == 0)
continue;
if (strcmp(c.update, "force-no-bbl") == 0)
continue;
if (strcmp(c.update, "metadata") == 0)
continue;
if (strcmp(c.update, "revert-reshape") == 0)
continue;
if (strcmp(c.update, "byteorder") == 0) {
if (ss) {
pr_err("must not set metadata type with --update=byteorder.
");
exit(2);
}
for (i = 0; !ss && superlist[i]; i++)
ss = superlist[i]->match_metadata_desc(
"0.swap");
if (!ss) {
pr_err("INTERNAL ERROR cannot find 0.swap\n");
exit(2);
}
continue;
}
if (strcmp(c.update,"?" == 0 ||
strcmp(c.update, "help") == 0) {
outf = stdout;
fprintf(outf, "%s: ", Name);
} else {
outf = stderr;
fprintf(outf, "%s: '--update=%s' is invalid. ",
Name, c.update);
}
fprintf(outf, "Valid --update options are:\n"
" 'sparc2.2', 'super-minor', 'uuid', 'name', 'nodes', 'resync',\n" " 'summaries', 'homehost', 'home-cluster', 'byteorder', 'devicesize',\n" " 'no-bitmap', 'metadata', 'revert-reshape\n" " 'bbl', 'no-bbl', 'force-no-bbl\n" );
exit(outf == stdout ? 0 : 2);

case O(MANAGE,'U'):
/* update=devicesize is allowed with --re-add */
if (devmode != 'A') {

pr_err("--update in Manage mode only allowed with --re-add\n");
exit(1);

if (c.update) {
    pr_err("Can only update one aspect of superblock, both %s and %s given.\n", c.update, optarg);
    exit(2);
}
c.update = optarg;
if (strcmp(c.update, "devicesize") != 0 &&
    strcmp(c.update, "bbl") != 0 &&
    strcmp(c.update, "force-no-bbl") != 0 &&
    strcmp(c.update, "no-bbl") != 0) {
    pr_err("only 'devicesize', 'bbl', 'no-bbl', and 'force-no-bbl' can be updated with --re-add\n");
    exit(2);
}
continue;

case O(INCREMENTAL,NoDegraded):
    pr_err("--no-degraded is deprecated in Incremental mode\n");
    break;
case O(ASSEMBLE,NoDegraded):
    /* --no-degraded */
    c.runstop = -1; /* --stop isn't allowed for --assemble,
    * so we overload slightly */
    continue;

    case O(ASSEMBLE,'c'):
    case O(ASSEMBLE,ConfigFile):
    case O(INCREMENTAL,'c'):
    case O(INCREMENTAL, ConfigFile):
    case O(MISC, 'c'):
    case O(MISC, ConfigFile):
    case O(MONITOR,'c'):
    case O(MONITOR,ConfigFile):
    case O(CREATE,ConfigFile):
    if (configfile) {
        pr_err("configfile cannot be set twice.  Second value is %s.\n", optarg);
        exit(2);
    }
    configfile = optarg;
    set_conffile(configfile);
    /* FIXME possibly check that config file exists.  Even parse it */
    continue;
    case O(ASSEMBLE, 's'): /* scan */
    case O(MISC, 's'):
    case O(MONITOR, 's'):
    case O(INCREMENTAL, 's'):
    c.scan = 1;
    continue;
case O(MONITOR,'m'): /* mail address */
    if (mailaddr)
        pr_err("only specify one mailaddress. %s ignored.
", optarg);
    else
        mailaddr = optarg;
    continue;

case O(MONITOR,'p'): /* alert program */
    if (program)
        pr_err("only specify one alter program. %s ignored.
", optarg);
    else
        program = optarg;
    continue;

case O(MONITOR,'r'): /* rebuild increments */
    increments = atoi(optarg);
    if (increments > 99 || increments < 1) {
        pr_err("please specify positive integer between 1 and 99 as rebuild increments.
");
        exit(2);
    }
    continue;

case O(MONITOR,'d'): /* delay in seconds */
    if (c.delay)
        pr_err("only specify delay once. %s ignored.
", optarg);
    else {
        c.delay = parse_num(optarg);
        if (c.delay < 1) {
            pr_err("invalid delay: %s
", optarg);
            exit(2);
        }
    }
    continue;

case O(MONITOR,'f'): /* daemonise */
    daemonise = 1;
    continue;
case O(MONITOR,'i'): /* pid */
if (pidfile)
    pr_err("only specify one pid file. %s ignored.", optarg);
else
    pidfile = optarg;
    continue;

case O(MONITOR,'l'): /* oneshot */
oneshot = 1;
    spare_sharing = 0;
    continue;

case O(MONITOR,'t'): /* test */
c.test = 1;
    continue;

case O(MONITOR, 'y'): /* log messages to syslog */
    openlog("mdadm", LOG_PID, SYSLOG_FACILITY);
    dosyslog = 1;
    continue;

case O(MONITOR, NoSharing):
    spare_sharing = 0;
    continue;

/* now the general management options. Some are applicable * to other modes. None have arguments. */
case O(GROW,'a'):
    case O(GROW,Add):
    case O(MANAGE,'a'):
    case O(MANAGE,Add): /* add a drive */
        devmode = 'a';
        continue;

    case O(MANAGE,AddSpare): /* add drive - never re-add */
        devmode = 'S';
        continue;

    case O(MANAGE,AddJournal): /* add journal */
        if (s.journaldisks && (s.level < 4 || s.level > 6)) {
            pr_err("--add-journal is only supported for RAID level 4/5/6.");
            exit(2);
        }
        devmode = 'j';
        continue;

    case O(MANAGE,ReAdd):
        devmode = 'A';
        continue;

    case O(MANAGE,'r'): /* remove a drive */
        case O(MANAGE,Remove):
            devmode = 'r';
            continue;
case O(MANAGE,'f'): /* set faulty */
case O(MANAGE,Fail):
case O(INCREMENTAL,'f'):
case O(INCREMENTAL,Remove):
case O(INCREMENTAL,Fail): /* r for incremental is taken, use f
   * even though we will both fail and
   * remove the device */
devmode = 'f';
continue;
case O(MANAGE, ClusterConfirm):
devmode = 'c';
continue;
case O(MANAGE,Replace):
   /* Mark these devices for replacement */
devmode = 'R';
continue;
case O(MANAGE,With):
   /* These are the replacements to use */
if (devmode != 'R') {
   pr_err("--with must follow --replace\n");
exit(2);
}
devmode = 'W';
continue;
case O(INCREMENTAL,'R'):
case O(MANAGE,'R'):
case O(ASSEMBLE,'R'):
case O(BUILD,'R'):
case O(CREATE,'R'): /* Run the array */
if (c.runstop < 0) {
   pr_err("Cannot both Stop and Run an array\n");
exit(2);
}
c.runstop = 1;
continue;
case O(MANAGE,'S'):
if (c.runstop > 0) {
   pr_err("Cannot both Run and Stop an array\n");
exit(2);
}
c.runstop = -1;
continue;
case O(MANAGE,'t'):
c.test = 1;
continue;

   case O(MISC,'Q'):
case O(MISC,'D'):
case O(MISC,'E'):
  case O(MISC,KillOpt):
  case O(MISC,'R'):
  case O(MISC,'S'):
  case O(MISC,'X'):
  case O(MISC, ExamineBB):
  case O(MISC,'o'):
  case O(MISC,'w'):
  case O(MISC,'W'):
  case O(MISC, WaitOpt):
  case O(MISC, Waitclean):
  case O(MISC, DetailPlatform):
  case O(MISC, KillSubarray):
  case O(MISC, UpdateSubarray):
  case O(MISC, Dump):
  case O(MISC, Restore):
  case O(MISC ,Action):
    if (opt == KillSubarray || opt == UpdateSubarray) {
      if (c.subarray) {
        pr_err("subarray can only be specified once\n");
        exit(2);
      }
      c.subarray = optarg;
    }
    if (opt == Action) {
      if (c.action) {
        pr_err("Only one --action can be specified\n");
        exit(2);
      }
      if (strcmp(optarg, "idle") == 0 ||
          strcmp(optarg, "frozen") == 0 ||
          strcmp(optarg, "check") == 0 ||
          strcmp(optarg, "repair") == 0)
        c.action = optarg;
      else {
        pr_err("action must be one of idle, frozen, check, repair\n");
        exit(2);
      }
    }
    if (devmode && devmode != opt &&
        (devmode == 'E' ||
          (opt == 'E' && devmode != 'Q'))) {
      pr_err("--examine/-E cannot be given with ");
      if (devmode == 'E') {
        if (option_index >= 0)
          fprintf(stderr, "--%s\n",
              long_options[option_index].name);
        else
          }
fprintf(stderr, "-%c\n", opt);
} else if (isalpha(devmode))
fprintf(stderr, "-%c\n", devmode);
else
fprintf(stderr, "previous option\n");
exit(2);
}
devmode = opt;
if (opt == Dump || opt == Restore) {
if (dump_directory != NULL) {
pr_err("dump/restore directory specified twice: %s and %s\n",
      dump_directory, optarg);
exit(2);
}
dump_directory = optarg;
}
continue;
case O(MISC, UdevRules):
if (devmode && devmode != opt) {
pr_err("--udev-rules must be the only option.\n");
} else {
if (udev_filename)
pr_err("only specify one udev rule filename. %s ignored.\n", optarg);
else
udev_filename = optarg;
}
devmode = opt;
continue;
case O(MISC, 't'):
c.test = 1;
continue;
case O(MISC, Sparc22):
if (devmode != 'E') {
pr_err("--sparc2.2 only allowed with --examine\n");
exit(2);
}
c.SparcAdjust = 1;
continue;

/* here we simply set the bitmap file */
case O(ASSEMBLE, 'b'):
if (!optarg) {
pr_err("bitmap file needed with -b in --assemble mode\n");
exit(2);
}
if (strcmp(optarg, "internal") == 0) {
pr_err("there is no need to specify --bitmap when assembling arrays with internal bitmaps\n");
continue;
}
bitmap_fd = open(optarg, O_RDWR);
if (!*optarg || bitmap_fd < 0) {
    pr_err("cannot open bitmap file %s: %s\n", optarg, strerror(errno));
    exit(2);
}
ident.bitmap_fd = bitmap_fd; /* for Assemble */
continue;

case O(ASSEMBLE, BackupFile):
case O(GROW, BackupFile):
    /* Specify a file into which grow might place a backup,
    * or from which assemble might recover a backup
    */
    if (c.backup_file) {
        pr_err("backup file already specified, rejecting %s\n", optarg);
        exit(2);
    }
    c.backup_file = optarg;
continue;

    case O(GROW, Continue):
    /* Continue interrupted grow
    */
    grow_continue = 1;
    continue;
    case O(ASSEMBLE, InvalidBackup):
    /* Acknowledge that the backupfile is invalid, but ask
    * to continue anyway
    */
    c.invalid_backup = 1;
    continue;

    case O(BUILD,'b'):
    case O(BUILD, Bitmap):
    case O(CREATE,'b'):
    case O(CREATE, Bitmap): /* here we create the bitmap */
    case O(GROW,'b'):
    case O(GROW, Bitmap):
if (strcmp(optarg, "internal") == 0 ||
    strcmp(optarg, "none") == 0 ||
    strchr(optarg, '/') != NULL) {
    s.bitmap_file = optarg;
    continue;
}
s.bitmap_file = optarg;
/* Set the default number of cluster nodes */
    * to 4 if not already set by user */
if (c.nodes < 1)
c.nodes = 4;
continue;
/* probable typo */
pr_err("bitmap file must contain a '/', or be 'internal', or be 'clustered', or 'none'\n"
    " not %s\n", optarg);
exit(2);

case O(GROW, BitmapChunk):
case O(BUILD, BitmapChunk):
case O(CREATE, BitmapChunk): /* bitmap chunksize */
s.bitmap_chunk = parse_size(optarg);
if (s.bitmap_chunk == 0 ||
    s.bitmap_chunk == INVALID_SECTORS ||
    s.bitmap_chunk & (s.bitmap_chunk - 1)) {
    pr_err("invalid bitmap chunksize: %s\n",
        optarg);
    exit(2);
}
s.bitmap_chunk = s.bitmap_chunk * 512;
continue;

case O(GROW, WriteBehind):
case O(BUILD, WriteBehind):
case O(CREATE, WriteBehind): /* write-behind mode */
s.write_behind = DEFAULT_MAX_WRITE_BEHIND;
if (optarg) {
    s.write_behind = parse_num(optarg);
    if (s.write_behind < 0 ||
        s.write_behind > 16383) {
        pr_err("Invalid value for maximum outstanding write-behind writes: %s\n\tMust be between 0 and 16383\n", optarg);
        exit(2);
    }
}
continue;

case O(INCREMENTAL, 'r'):
case O(INCREMENTAL, RebuildMapOpt):
    rebuild_map = 1;
    continue;
case O(INCREMENTAL, IncrementalPath):
    remove_path = optarg;
continue;

case O(CREATE, WriteJournal):
    if (s.journaldisks) {
        pr_err("Please specify only one journal device for the array.\n");
        pr_err("Ignoring --write-journal %s...\n", optarg);
        continue;
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = 'j'; /* WriteJournal */
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
    devs_found++;

    s.journaldisks = 1;
    continue;
}

/* We have now processed all the valid options. Anything else is
 * an error
 */
if (option_index > 0)
    pr_err("option --%s not valid in %s mode\n",
           long_options[option_index].name,
           map_num(modes, mode));
else
    pr_err("option -%c not valid in %s mode\n",
           opt, map_num(modes, mode));
exit(2);

if (print_help) {
    char *help_text;
    if (print_help == 2)
        help_text = OptionHelp;
    else
        help_text = mode_help[mode];
    if (help_text == NULL)
        help_text = Help;
    fputs(help_text, stdout);
    exit(0);
}

if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--write-journal is only supported for RAID level 4/5/6.\n");
    exit(2);
if (!mode && devs_found) {
    mode = MISC;
    devmode = 'Q';
    if (devlist->disposition == 0)
        devlist->disposition = devmode;
}
if (!mode) {
    fputs(Usage, stderr);
    exit(2);
}
if (symlinks) {
    struct createinfo *ci = conf_get_create_info();
    if (strcasecmp(symlinks, "yes") == 0)
        ci->symlinks = 1;
    else if (strcasecmp(symlinks, "no") == 0)
        ci->symlinks = 0;
    else {
        pr_err("option --symlinks must be 'no' or 'yes'");
        exit(2);
    }
}
/* Ok, got the option parsing out of the way
 * hopefully it's mostly right but there might be some stuff
 * missing
 *
 * That is mostly checked in the per-mode stuff but...
 *
 * For @,B,C and A without -s, the first device listed must be
 * an md device. We check that here and open it.
 */
if (mode == MANAGE || mode == BUILD || mode == CREATE ||
    mode == GROW || (mode == ASSEMBLE && !c.scan)) {
    if (devs_found < 1) {
        pr_err("an md device must be given in this mode");
        exit(2);
    }
    if ((int)ident.super_minor == -2 && c.autof) {
        pr_err("--super-minor=dev is incompatible with --auto");
        exit(2);
    }
    if (mode == MANAGE || mode == GROW) {
        mdfd = open_mddev(devlist->devname, 1);
        if (mdfd < 0)
exit(1);
} else
/* non-existent device is OK */
mdfd = open_mddev(devlist->devname, 0);
if (mdfd == -2) {
    pr_err("device %s exists but is not an md array.", devlist->devname);
    exit(1);
}
if ((int)ident.super_minor == -2) {
    struct stat stb;
    if (mdfd < 0) {
        pr_err("--super-minor=dev given, and listed device %s doesn't exist.",
              devlist->devname);
        exit(1);
    }
    fstat(mdfd, &stb);
    ident.super_minor = minor(stb.st_rdev);
}
if (mdfd >= 0 && mode != MANAGE && mode != GROW) {
    /* We don't really want this open yet, we just might
     * have wanted to check some things
     */
    close(mdfd);
    mdfd = -1;
}
}

if (s.raiddisks) {
    if (s.raiddisks == 1 && !c.force && s.level != LEVEL_FAULTY) {
        pr_err("'1' is an unusual number of drives for an array, so it is probably
               a mistake. If you really mean it you will need to specify --force before
               setting the number of drives.");
        exit(2);
    }
}

if (c.homehost == NULL && c.require_homehost) {
    c.homehost = conf_get_homehost(&c.require_homehost);
    if (c.homehost == NULL || strcasecmp(c.homehost, "<system>") == 0) {
        if (gethostname(sys_hostname, sizeof(sys_hostname)) == 0) {
            sys_hostname[sizeof(sys_hostname)-1] = 0;
            c.homehost = sys_hostname;
        }
    }
    if (c.homehost &&
        (!c.homehost[0] || strcasecmp(c.homehost, "<none>") == 0)) {
        c.homehost = NULL;
        c.require_homehost = 0;
    }
}
rv = 0;

set_hooks(); /* set hooks from libs */

if (c.homecluster == NULL && (c.nodes > 0)) {
    c.homecluster = conf_get_homecluster();
    if (c.homecluster == NULL)
        rv = get_cluster_name(&c.homecluster);
    if (rv) {
        pr_err("The md can’t get cluster name\n");
        exit(1);
    }
}

if (c.backup_file && data_offset != INVALID_SECTORS) {
    pr_err("--backup-file and --data-offset are incompatible\n");
    exit(2);
}

if ((mode == MISC && devmode == 'E') ||
    (mode == MONITOR && spare_sharing == 0)) /* Anyone may try this */;
else if (geteuid() != 0) {
    pr_err("must be super-user to perform this action\n");
    exit(1);
}

ident.autof = c.autof;

if (c.scan && c.verbose < 2)
    /* --scan implied --brief unless -vv */
    c.brief = 1;

switch(mode) {
    case MANAGE:
        /* readonly, add/remove, readwrite, runstop */
        if (c.readonly > 0)
            rv = Manage_ro(devlist->devname, mdfd, c.readonly);
        if (!rv && devs_found>1)
            rv = Manage_subdevs(devlist->devname, mdfd,
                                devlist->next, c.verbose, c.test,
                                c.update, c.force);
        if (!rv && c.runstop > 0)
            rv = Manage_run(devlist->devname, mdfd, &c);
if (!rv && c.runstop < 0)
    rv = Manage_stop(devlist->devname, mdfd, c.verbose, 0);
break;

case ASSEMBLE:
    if (devs_found == 1 && ident.uuid_set == 0 &&
        ident.super_minor == UnSet && ident.name[0] == 0 &&
        !c.scan ) {
/* Only a device has been given, so get details from config file */
    struct mddev_ident *array_ident = conf_get_ident(devlist->devname);
    if (array_ident == NULL) {
        pr_err("%s not identified in config file:\n", devlist->devname);
        rv |= 1;
        if (mdfd >= 0)
            close(mdfd);
    } else {
        if (array_ident->autof == 0)
            array_ident->autof = c.autof;
        rv |= Assemble(ss, devlist->devname, array_ident,
            NULL, &c);
    }
    } else if (!c.scan)
    rv = Assemble(ss, devlist->devname, &ident,
        devlist->next, &c);
else if (devs_found > 0) {
    if (c.update && devs_found > 1) {
        pr_err("can only update a single array at a time\n");
        exit(1);
    }
    if (c.backup_file && devs_found > 1) {
        pr_err("can only assemble a single array when providing a backup file\n");
        exit(1);
    }
    for (dv = devlist ; dv ; dv=dv->next) {
        struct mddev_ident *array_ident = conf_get_ident(dv->devname);
        if (array_ident == NULL) {
            pr_err("%s not identified in config file\n", dv->devname);
            rv |= 1;
            continue;
        }
        if (array_ident->autof == 0)
            array_ident->autof = c.autof;
        rv |= Assemble(ss, dv->devname, array_ident,
            NULL, &c);
    }
} else {
    if (c.update) {
pr_err("--update not meaningful with a --scan assembly.");
exit(1);
}
if (c.backup_file) {
pr_err("--backup_file not meaningful with a --scan assembly.");
exit(1);
}
rv = scan_assemble(ss, &c, &ident);
}

break;
case BUILD:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
if (s.write_behind && !s.bitmap_file) {
pr_err("write-behind mode requires a bitmap.");
r = 1;
break;
}
if (s.raiddisks == 0) {
pr_err("no raid-devices specified.");
r = 1;
break;
}

if (s.bitmap_file) {
if (strcmp(s.bitmap_file, "internal") == 0 ||
    strcmp(s.bitmap_file, "clustered") == 0) {
pr_err("'internal' and 'clustered' bitmaps not supported with --build");
r = 1;
break;
}
rv = Build(devlist->devname, devlist->next, &s, &c);
break;
case CREATE:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;

if (c.nodes) {
if (!s.bitmap_file ||
    strcmp(s.bitmap_file, "clustered") != 0) {
pr_err("--nodes argument only compatible with --bitmap=clustered");
r = 1;
break;
}
if (s.level != 1) {

pr_err("--bitmap=clustered is currently supported with RAID mirror only\n");
rv = 1;
break;
}
}

if (s.write_behind && !s.bitmap_file) {
pr_err("write-behind mode requires a bitmap.\n");
r_v = 1;
break;
}
if (s.raiddisks == 0) {
pr_err("no raid-devices specified.\n");
r_v = 1;
break;
}

rv = Create(ss, devlist->devname,
    ident.name, ident.uuid_set ? ident.uuid : NULL,
    devs_found-1, devlist->next,
    &s, &c, data_offset);
break;
case MISC:
if (devmode == 'E') {
if (devlist == NULL && !c.scan) {
pr_err("No devices to examine\n");
exit(2);
}
if (devlist == NULL)
devlist = conf_get_devs();
if (devlist == NULL) {
pr_err("No devices listed in %s\n", configfile?configfile:DefaultConfFile);
exit(1);
}
r_v = Examine(devlist, &c, ss);
} else if (devmode == 'E') {
    rv = Detail_Platform(ss ? ss->ss : NULL, ss ? c.scan : 1,
        c.verbose, c.export,
        devlist ? devlist->devname : NULL);
} else if (devlist == NULL) {
    if (devmode == 'S' && c.scan)
        rv = stop_scan(c.verbose);
    else if ((devmode == 'D' || devmode == Waitclean) &&
        c.scan)
        rv = misc_scan(devmode, &c);
    else if (devmode == UdevRules)
        rv = Write_rules(udev_filename);
    else {

pr_err("No devices given.
");
exit(2);
}
else
rv = misc_list(devlist, &ident, dump_directory, ss, &c);
break;

case MONITOR:
if (!devlist && !c.scan) {
pr_err("Cannot monitor: need --scan or at least one device
");
rv = 1;
break;
}
if (pidfile && !daemonise) {
pr_err("Cannot write a pid file when not in daemon mode
");
rv = 1;
break;
}
if (c.delay == 0) {
if (get_linux_version() > 2006016)
/* mdstat responds to poll */
c.delay = 1000;
else
c.delay = 60;
}
rv = Monitor(devlist, mailaddr, program,
&c, daemonise, oneshot,
dosyslog, pidfile, increments,
spare_sharing);
break;

case GROW:
if (array_size > 0) {
/* always impose array size first, independent of
 * anything else
 * Do not allow level or raid_disks changes at the
 * same time as that can be irreversibly destructive.
 */
struct mdinfo sra;
int err;
if (s.raiddisks || s.level != UnSet) {
pr_err("cannot change array size in same operation as changing raiddisks or level
" " Change size first, then check that data is still intact
");
rv = 1;
break;
}
sysfs_init(&sra, mdfd, NULL);
if (array_size == MAX_SIZE)
err = sysfs_set_str(&sra, NULL, "array_size", "default");

else
    err = sysfs_set_num(&sra, NULL, "array_size", array_size / 2);
    if (err < 0) {
        if (errno == E2BIG)
            pr_err("--array-size setting is too large.");
        else
            pr_err("current kernel does not support setting --array-size
");
        rv = 1;
        break;
    }
}
if (devs_found > 1 && s.raiddisks == 0 && s.level == UnSet) {
/* must be `-a'. */
    if (s.size > 0 || s.chunk ||
        s.layout_str || s.bitmap_file) {
        pr_err("--add cannot be used with other geometry changes in --grow mode\n");
        rv = 1;
        break;
    }
    for (dv=devlist->next; dv ; dv=dv->next) {
        rv = Grow_Add_device(devlist->devname, mdfd,
            dv->devname);
        if (rv)
            break;
    }
} else if (s.bitmap_file) {
    if (s.size > 0 || s.raiddisks || s.chunk ||
        s.layout_str || devs_found > 1) {
        pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
        rv = 1;
        break;
    }
    if (c.delay == 0)
        c.delay = DEFAULT_BITMAP_DELAY;
    rv = Grow_addbitmap(devlist->devname, mdfd, &c, &s);
} else if (grow_continue)
    rv = Grow_continue_command(devlist->devname,
        mdfd, c.backup_file,
        c.verbose);
else if (s.size > 0 || s.raiddisks || s.layout_str ||
    s.chunk != 0 || s.level != UnSet ||
    data_offset != INVALID_SECTORS) {
    rv = Grow_reshape(devlist->devname, mdfd,
        devlist->next,
        data_offset, &c, &s);
} else if (array_size == 0)
    pr_err("no changes to --grow\n");
break;
case INCREMENTAL:
    if (rebuild_map) {
        RebuildMap();
    }
    if (c.scan) {
        rv = 1;
        if (devlist) {
            pr_err("In --incremental mode, a device cannot be given with --scan.");
            break;
        }
        if (c.runstop <= 0) {
            pr_err("--incremental --scan meaningless without --run.");
            break;
        }
        if (devmode == 'f') {
            pr_err("--incremental --scan --fail not supported.");
            break;
        }
        rv = IncrementalScan(&c, NULL);
    }
    if (!devlist) {
        if (!rebuild_map && !c.scan) {
            pr_err("--incremental requires a device.");
            rv = 1;
        }
        break;
    }
    if (devmode == 'f') {
        if (devlist->next) {
            pr_err("--incremental --fail can only handle one device.");
            rv = 1;
            break;
        }
        rv = IncrementalRemove(devlist->devname, remove_path,
                                c.verbose);
        break;
    }
    else
        rv = Incremental(devlist, &c, ss);
    break;
    case AUTODETECT:
        autodetect();
        break;
    }
    exit(rv);
}

static int scan_assemble(struct supertype *ss, 
                          struct context *c, 
                          struct mddev_ident *ident)
struct mddev_ident *a, *array_list = conf_get_ident(NULL);
struct mddev_dev *devlist = conf_get_devs();
struct map_ent *map = NULL;
int cnt = 0;
int rv = 0;
int failures, successes;

if (conf_verify_devnames(array_list)) {
    pr_err("Duplicate MD device names in conf file were found.
"); return 1;
}
if (devlist == NULL) {
    pr_err("No devices listed in conf file were found.
"); return 1;
}
for (a = array_list; a ; a = a->next) {
    a->assembled = 0;
    if (a->autof == 0)
        a->autof = c->autof;
}
if (map_lock(&map))
    pr_err("failed to get exclusive lock on mapfile\n");
do {
    failures = 0;
    successes = 0;
    rv = 0;
    for (a = array_list; a ; a = a->next) {
        int r;
        if (a->assembled)
            continue;
        if (a->devname &&
            strcasecmp(a->devname, "<ignore>") == 0)
            continue;

        r = Assemble(ss, a->devname,
                     a, NULL, c);
        if (r == 0) {
            a->assembled = 1;
            successes++;
        } else
            failures++;
        rv |= r;
        cnt++;
    } while (failures && successes);
if (c->homehost && cnt == 0) {
    /* Maybe we can auto-assemble something.*/
Repeatedly call Assemble in auto-assemble mode
until it fails
*/
int rv2;
int acnt;
ident->autof = c->autof;
do {
  struct mddev_dev *devlist = conf_get_devs();
  acnt = 0;
do {
rv2 = Assemble(ss, NULL,
   ident,
   devlist, c);
if (rv2 == 0) {
  cnt++;
  acnt++;
}
  while (rv2 != 2);
/* Incase there are stacked devices, we need to go around again */
  while (acnt);
if (cnt == 0 && rv == 0) {
pr_err("No arrays found in config file or automatically\n");
rv = 1;
} else if (cnt)
rv = 0;
} else if (cnt == 0 && rv == 0) {
pr_err("No arrays found in config file\n");
rv = 1;
}
map_unlock(&map);
return rv;
}

static int misc_scan(char devmode, struct context *c)
{
/* apply --detail or --wait-clean to
 * all devices in /proc/mdstat
 */
struct mdstat_ent *ms = mdstat_read(0, 1);
struct mdstat_ent *e;
struct map_ent *map = NULL;
int members;
int rv = 0;

for (members = 0; members <= 1; members++) {
  for (e=ms ; e ; e=e->next) {
    char *name = NULL;
    struct map_ent *me;
struct stat stb;
int member = e->metadata_version &&
 strncmp(e->metadata_version, 
="/" , 10) ;
if (e->metadata_version != member)
continue;
me = map_by_devnm(&map, e->devnm);
if (me && me->path
 && strcmp(me->path, "/unknown") != 0)
name = me->path;
if (name && name != NULL && stat(name, &stb) != 0)
name = get_md_name(e->devnm);
if (!name) {
pr_err("cannot find device file for %s\n", e->devnm);
continue;
}
if (devmode == 'D')
rv |= Detail(name, c);
else
rv |= WaitClean(name, -1, c->verbose);
put_md_name(name);
}
free_mdstat(ms);
return rv;
}

static int stop_scan(int verbose)
{
/* apply --stop to all devices in /proc/mdstat */
/* Due to possible stacking of devices, repeat until
nothing more can be stopped */
int progress=1, err;
int last = 0;
int rv = 0;
do {
struct mdstat_ent *ms = mdstat_read(0, 0);
struct mdstat_ent *e;

if (!progress) last = 1;
progress = 0; err = 0;
for (e=ms ; e ; e=e->next) {
char *name = get_md_name(e->devnm);
int mdfd;
if (!name) {
    pr_err("cannot find device file for \%s\n",
    e->devnm);
    continue;
}
mdfd = open_mddev(name, 1);
if (mdfd >= 0) {
    if (Manage_stop(name, mdfd, verbose, !last))
        err = 1;
    else
        progress = 1;
    close(mdfd);
}
put_md_name(name);
}
free_mdstat(ms);
} while (!last && err);
if (err)
    rv |= 1;
return rv;
}

static int misc_list(struct mddev_dev *devlist,
    struct mddev_ident *ident,
    char *dump_directory,
    struct supertype *ss, struct context *c)
{
    struct mddev_dev *dv;
    int rv = 0;

    for (dv=devlist ; dv; dv=(rv & 16) ? NULL : dv->next) {
        int mdfd;
        switch(dv->disposition) {
        case 'D':
            rv |= Detail(dv->devname, c);
            continue;
        case KillOpt: /* Zero superblock */
            if (ss)
                rv |= Kill(dv->devname, ss, c->force, c->verbose,0);
            else {
                int v = c->verbose;
                do {
                    rv |= Kill(dv->devname, NULL, c->force, v, 0);
                    v = -1;
                } while (rv == 0);
                rv &= ~2;
            }
continue;
case 'Q':
  rv |= Query(dv->devname); continue;
case 'X':
  rv |= ExamineBitmap(dv->devname, c->brief, ss); continue;
case ExamineBB:
  rv |= ExamineBadblocks(dv->devname, c->brief, ss); continue;
case 'W':
case WaitOpt:
  rv |= Wait(dv->devname); continue;
case Waitclean:
  rv |= WaitClean(dv->devname, -1, c->verbose); continue;
case KillSubarray:
  rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
  continue;
case UpdateSubarray:
  if (c->update == NULL) {
    pr_err("-U/--update must be specified with --update-subarray\n");
    rv |= 1;
    continue;
  }
  rv |= Update_subarray(dv->devname, c->subarray,
    c->update, ident, c->verbose);
  continue;
case Dump:
  rv |= Dump_metadata(dv->devname, dump_directory, c, ss);
  continue;
case Restore:
  rv |= Restore_metadata(dv->devname, dump_directory, c, ss,
    (dv == devlist && dv->next == NULL));
  continue;
case Action:
  rv |= SetAction(dv->devname, c->action);
  continue;
}
if (dv->devname[0] == '/')
  mdfd = open_mddev(dv->devname, 1);
else {
  mdfd = open_dev(dv->devname);
  if (mdfd < 0)
    pr_err("Cannot open %s\n", dv->devname);
}
if (mdfd>=0) {
  switch(dv->disposition) {
    case 'R':
      c->runstop = 1;
      rv |= Manage_run(dv->devname, mdfd, c); break;
...
case 'S':
    rv |= Manage_stop(dv->devname, mdfd, c->verbose, 0); break;
    case 'o':
    rv |= Manage_ro(dv->devname, mdfd, 1); break;
    case 'w':
    rv |= Manage_ro(dv->devname, mdfd, -1); break;
}
    close(mdfd);
} else
    rv |= 1;
}
return rv;

int SetAction(char *dev, char *action)
{
    int fd = open(dev, O_RDONLY);
    struct mdinfo mdi;
    if (fd < 0) {
        pr_err("Couldn't open %s: %s\n", dev, strerror(errno));
        return 1;
    }
    sysfs_init(&mdi, fd, NULL);
    close(fd);
    if (!mdi.sys_name[0]) {
        pr_err("%s is no an md array\n", dev);
        return 1;
    }
    if (sysfs_set_str(&mdi, NULL, "sync_action", action) < 0) {
        pr_err("Count not set action for %s to %s: %s\n",
                dev, action, strerror(errno));
        return 1;
    }
    return 0;
}

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-- vile: txtmode file-encoding=utf-8

1.211 net-tools 1.60-26 :r0
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    * your option) any later version.
    */
    #include "config.h"

    #if HAVE_AFNETROM || HAVE_HWNETROM
    #include <sys/types.h>
    #include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"
static char netrom_errmsg[128];
extern struct aftype netrom_aftype;
static char *NETROM_print(unsigned char *ptr)
{
static char buff[8];
int i;
for (i = 0; i < 6; i++) {
buff[i] = ((ptr[i] & 0377) >> 1);
if (buff[i] == ' ')
buff[i] = '\0';
}
buff[6] = '\0';
i = ((ptr[6] & 0x1E) >> 1);
if (i != 0)
sprintf(&buff[strlen(buff)], "-%d", i);
return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
char buf[64];
if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));

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3153


return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
    char *orig, c;
    unsigned int i;

    sap->sa_family = netrom_aftype.af;
    ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

    /* First, scan and convert the basic callsign.*/
    orig = bufp;
    i = 0;
    while (((*bufp != \0') &\& (*bufp != '\-') &\& (i < 6)) {  
        c = *bufp++;
        if (islower(c))
            c = toupper(c);
        if (!(isupper(c) || isdigit(c))) {
            safe_strncpy(netrom_errmsg, "_Invalid callsign"), sizeof(netrom_errmsg));
            #ifdef DEBUG
            fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
            #endif
            errno = EINVAL;
            return (-1);
        }
        *ptr++ = (unsigned char) ((c << 1) & 0xFE);
        i++;
    }

    /* Callsign too long? */
    if ((i == 6) &\& (*bufp != '\-') &\& (*bufp != '\0')) {
        safe_strncpy(netrom_errmsg, "_Callsign too long"), sizeof(netrom_errmsg));
        #ifdef DEBUG
        fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
        #endif
        errno = E2BIG;
        return (-1);
    }

    /* Nope, fill out the address bytes with blanks. */
    while (i++ < sizeof(ax25_address) - 1) {
        *ptr++ = (unsigned char) ((c << 1) & 0xFE);
    }

    /* See if we need to add an SSID field. */
    if (*bufp == '\-') {

i = atoi(++bufp);
*ptr = (unsigned char)((i << 1) & 0xFE);
} else {
*ptr = (unsigned char)\'0\';
}

/* All done. */
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): ", orig);
for (i = 0; i < sizeof(ax25_address); i++)
fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
fprintf(stderr, "\n");
#endif

return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
 if (text == NULL)
fprintf(stderr, "%s\n", netrom_errmsg);
 else
fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
 if (NETROM_input(0, bufp, sap) < 0)
return (-1);
sap->sa_family = ARPHRD_NETROM;
return (0);
}

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
 if (ioctl(fd, TIOCSETD, &disc) < 0) {
 fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
 return (-errno);
 }
 return (0);
}
#endif
/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};
#endif /* HAVE_AFNETROM */

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk
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- **libpcap**: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.

- **libdnet**: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.

- **PCRE**: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library.
  Distributed with Nmap in the libpcre subdirectory.

- **liblua**: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  [http://www.lua.org/](http://www.lua.org/)

- **OpenSSL**: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.

- **LIBLINEAR**. Used for IPv6 OS classification.

- **libsvn**: The Subversion library, used by the updater program nmap-update.

- **APR** (Apache Portable Runtime). Used by libsvn.

On Windows only, Nmap uses:

- **WinPcap**: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/wincap.
Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
http://www.python.org/

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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</head>
<body>
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<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
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45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
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50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = ``
eval VERSION="\$\(sed -e 's/.*\[// -e 's/\]\].*// < ../sntp/m4/version.m4\"
[ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
    echo $VERSION``;

version-value = "#/ Don't use -v as a shortcut for --version "/

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */
// doc-sub = {
//    sub-name = version;
//    sub-text = "#VERSION#/<<version>>/g';
// }

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1.227 open-vm-tools 10.0.7 :r0

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>>> convertutf.c/.h from unicode, inc.-none

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;

    /* OPENBSD ORIGINAL: sys/sys/poll.h */

#endif
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 POLLRD NORM 0x0040
#define POLLNORM POLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLRD BAND 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 HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif /* !_COMPAT_POLL_H_ */
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif /* !_COMPAT_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
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/* 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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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.233 page-types 1.0 :r0

1.234 pango 1.42.4 :r0
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1.235 parted 3.2 :r1
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- Julius P. Malkiewicz (julius@sonartech.com.au) contributed FreeBSD
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- Salvatore Sanfilippo (https://github.com/antirez) is the author of the linenoise line-editing library. See: https://github.com/antirez/linenoise

- From Cody Schafer's (https://gitbub.com/jmesmon) fork originated the idea to add custom baudrate support to picocom. See: https://github.com/jmesmon/picocom

- From Paul Chakravarti's (https://github.com/paulchakravarti) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: https://github.com/paulchakravarti/picocom-noexec

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1.240 pixman 0.34.0 :r0

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1.241 pm-utils 1.4.1 :r1

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1.242 policycoreutils 2.8 :r0

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1.244 ppp 2.4.7 :r0

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* Added generation of field number constants.
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Will Pierce <willp@nuclei.com>
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* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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1.248 protobuf-c 1.3.1 :r0
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1.250 ptest-runner 2.2 :r0

1.251 python 2.7.16 :r1

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.. highlightlang:: none

.. _history-and-license:

*******************

History and License
*******************

History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 https://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

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The `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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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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

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test_epoll

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.256 python-cryptography 2.3 :r0

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1.257 python-cryptography-vectors 2.3 :r0

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1.258 python-dbus 1.2.8 :r0

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Credits
=======

NetworkX was originally written by Aric Hagberg, Dan Schult, and Pieter Swart,
and has been developed with the help of many others. Thanks to everyone who has
improved NetworkX by contributing code, bug reports (and fixes), documentation,
and input on design, features, and the future of NetworkX.

Contributions
-------------

This section aims to provide a list of people and projects that have
contributed to ``networkx``. It is intended to be an *inclusive* list, and
anyone who has contributed and wishes to make that contribution known is
welcome to add an entry into this file. Generally, no name should be added to
this list without the approval of the person associated with that name.

Creating a comprehensive list of contributors can be difficult, and the list
within this file is almost certainly incomplete. Contributors include
testers, bug reporters, contributors who wish to remain anonymous, funding
sources, academic advisors, end users, and even build/integration systems (such
as `TravisCI <https://travis-ci.org>`_).

Do you want to make your contribution known? If you have commit access, edit
this file and add your name. If you do not have commit access, feel free to
open an `issue <https://github.com/networkx/networkx/issues/new>`_, submit a
`pull request <https://github.com/networkx/networkx/compare/>`_, or get in
contact with one of the official team
`members <https://github.com/networkx?tab=members>`_.

A supplementary (but still incomplete) list of contributors is given by the
list of names that have commits in ``networkx``'s
`git <http://git-scm.com>`_ repository. This can be obtained via::

```
git log --raw | grep "^Author: " | sort | uniq
```

A historical, partial listing of contributors and their contributions to some
of the earlier versions of NetworkX can be found
`here <https://github.com/networkx/networkx/blob/886e790437bcf30e9f58368829d483efef7a2acc/doc/source/reference/credits_old.rst>`_.

Original Authors
| Aric Hagberg
| Dan Schult
| Pieter Swart
|

Contributors

Optionally, add your desired name and include a few relevant links. The order is partially historical, and now, mostly arbitrary.

- Aric Hagberg, GitHub: `hagberg <https://github.com/hagberg>`_
- Dan Schult, GitHub: `dschult <https://github.com/dschult>`_
- Pieter Swart
- Katy Bold
- Hernan Rozenfeld
- Brendt Wohlberg
- Jim Bagrow
- Holly Johnsen
- Arnar Flatberg
- Chris Myers
- Joel Miller
- Keith Briggs
- Ignacio Rozada
- Phillipp Pagel
- Sverre Sundsdal
- Ross M. Richardson
- Eben Kenah
- Sasha Gutfriend
- Udi Weinsberg
- Matteo Dell'Amico
- Andrew Conway
- Raf Guns
- Salim Fadhley
- Fabrice Desclaux
- Arpad Horvath
- Minh Van Nguyen
- Willem Ligtenberg
- Loc Sguin-C.
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- Jesus Cerquides
- Ben Edwards
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- Franck Kalala
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- Sergio Nery Simes
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- Jeffrey Finkelstein
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- Konstantinos Karakatsanis, GitHub: `k-karakatsanis <https://github.com/k-karakatsanis>`
- Ryan Nelson, GitHub: `rnelsonchem <https://github.com/rnelsonchem>`
- Niels van Adrichem, GitHub: `NvanAdrichem <https://github.com/NvanAdrichem>`
- Michael E. Rose, GitHub: `Michael-E-Rose <https://github.com/Michael-E-Rose>`
- Jarrod Millman, GitHub: `jarrodmillman <https://github.com/jarrodmillman>`
- Andre Weltsch

Support
-------
`networkx` and those who have contributed to `networkx` have received support throughout the years from a variety of sources. We list them below. If you have provided support to `networkx` and a support acknowledgment does not appear below, please help us remedy the situation, and similarly, please let us know if you'd like something modified or corrected.

Research Groups
~~~~~~~~~~~~~~~~

`networkx` acknowledges support from the following:

- `Center for Nonlinear Studies <http://cnls.lanl.gov>`
  Los Alamos National Laboratory, PI: Aric Hagberg

- `Open Source Programs Office <https://developers.google.com/open-source>`
  Google

- `Complexity Sciences Center <http://csc.ucdavis.edu>`
  Department of
Physics, University of California-Davis, PI: James P. Crutchfield

- Center for Complexity and Collective Computation [http://c4.discovery.wisc.edu], Wisconsin Institute for Discovery, University of Wisconsin-Madison, PIs: Jessica C. Flack and David C. Krakauer

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- Google Summer of Code via Python Software Foundation

- U.S. Army Research Office grant W911NF-12-1-0288

- DARPA Physical Intelligence Subcontract No. 9060-000709

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- John Templeton Foundation through a grant to the Santa Fe Institute to study complexity

- U.S. Army Research Laboratory and the U.S. Army Research Office under contract number W911NF-13-1-0340

1.269 python-pip 18.0 :r0

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1.270 python-pluggy 0.6.0 :r0

1.270.1 Available under license :

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1.271 python-ply 3.11 :r0

1.272 python-pretend 1.0.9 :r0

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1.273 python-py 1.6.0 :r0
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1.274 python-pyasn1 0.4.4 :r0
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.. _license:

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.. include:: ../../LICENSE.rst

1.275 python-pycparser 2.18 :r0

1.275.1 Available under license :

pycparser -- A C parser in Python

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1.276 python-pycrypto 2.6.1 :r0

1.276.1 Available under license:

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600 (CST)
Delivered-To: m-dlitz-dlitz@dlitz.net
-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from stamper.itconsult.co.uk certifying that a user claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net

# This certificate was issued at 00:45 (GMT) on Thursday 28 August 2008 with reference 0520978

# CAUTION: while the message may well be from the sender indicated in the "From:" header, the sender has NOT been authenticated by this service

# For information about the Stamper service see http://www.itconsult.co.uk/stamper.htm

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

-----END PGP SIGNED MESSAGE-----
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnBVwth+BAQEcuwf9EWnXLqSO5bPzR9KQnTPcsKbTljKjPxrd+q0E7eE8VnvvijUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAga4fgAgvYH9tUNjJv9QLz/aq2fi/HNjyrwnqFnnUl0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxzbCOpjrGv2zDdNR/2SnFmDWQXv8dSeonwIHpQDf8/LVA/gHiTDMteQI0hJQ6o
XYhY+hBrjsD741/GspOT9IN5ln0UgshFoLindNSAvWf4aPyh5KCN7ho+/BC0v/WpqSSIPkwmbhlPHoIftTkNc0qKLAXXqMGJNhO8AkrYZ0yJksb0HsA==
=3oiX
-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting
code to PyCrypto must be able to certify the following (taken from the Linux
kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I
have the right to submit it under the open source license
indicated in the file; or

(b) The contribution is based upon previous work that, to the best
of my knowledge, is covered under an appropriate open source
license and I have the right under that license to submit that
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(c) The contribution was provided directly to me by some other
person who certified (a), (b) or (c) and I have not modified it.
(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

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=== EOF ===

00INDEX - This file
tsu-notify.mbox - Notification sent per U.S. export regulations
copy/ - Copyright info & public-domain dedications

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)
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(though that would be nice).

--amk
(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a
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find if I can release PyCrypto under something clearer and more standard.
Below, I have quoted a public domain dedication that was recommended in
_Intellectual Property and Open Source: A Practical Guide to Protecting
Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
Pointer, and Wim Lewis, and they have all approved the following text for
their contributions.

I understand that you have made contributions to PyCrypto. May I, on your
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
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> ===================================================================
> 
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> 
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> 
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> their contributions.
> 
> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
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```text
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(though that would be nice).

--amk (www.amk.ca)

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their contributions.

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with the following notice?
```
Hi Dwayne,<br>My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com. On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:<br><br>I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, it's not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. It says "distribute and use", but not "modify".

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
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Content-Transfer-Encoding: quoted-printable
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or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk
<br>
<br>
For the next PyCrypto release, I would like to take steps to move toward a =
clearer licensing regime. =A0I am asking as many copyright holders as I can=
find if I can release PyCrypto under something clearer and more standard. =
=A0Below, I have quoted a public domain dedication that was recommended in =
_Intellectual Property and Open Source: A Practical Guide to Protecting Cod=
e=, by Van Lindberg. =A0I have already contacted A. M. Kuchling, Robey Poin=
ter, and Wim Lewis, and they have all approved the following text for their=
contributions.

<br>

I understand that you have made contributions to PyCrypto. =A0May I, on you=
r behalf, dedicate to the public domain all your contributions to PyCrypto,=
with the following notice?

<br>
<br>
The contents of this file are dedicated to the public domain. =A0To the<br>extent that dedication to the public domain is not available, everyone<br>is granted a worldwide, perpetual, royalty-free, non-exclusive license<br>to exercise all rights associated with the contents of this file for<br>any purpose whatsoever. =A0No rights are reserved.
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

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For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6]) by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1]) by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198]) by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

----------------------------------
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

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

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard.
Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

---

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

---

Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1

1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
> Regards,
> Mark.
>
> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
>
> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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> The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It
>> says "distribute and use", but not "modify"."

>>

>>

>> ===================================================================

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>> no restrictions on further

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>> software is provided "as is" without

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>> suitability for any purpose, express

>> or implied. Use at your own risk or

>> not at all.

>>

>>

>> ===================================================================

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>> products is permitted; you do

>> not have to make source available or

>> contribute your changes back

>> (though that would be nice).

>>

>> --amk

>>

>> (www.amk.ca)

>>

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>> recommended in

>> _Intellectual Property and Open Source: A Practical Guide

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>> Code_, by Van Lindberg. I have already contacted A.

>> M. Kuchling, Robey

>> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they

>> have all

>> approved the following dedication for their contributions.

>>

>> I understand that you have made contributions to

>> PyCrypto. May I, on your

>> behalf, dedicate to the public domain all your

>> contributions to PyCrypto,
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Regards,

-Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1

1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
>Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to
PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2ksxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeeXfMVn8aw+1BHg0YD85gsntDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+16eKQJ3juh8IPHLAduOXMr9ngus/yR+Doaq0xOPKoBx+5+t1ILJtBcZ
wrPEa9Oui9s=
=2SY9
-----END PGP SIGNATURE-----

Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

--YiEDa0DAkWCtVeE4
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAlkko52IAcgkQHQB4d+eAS0XPPQCfycQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkeyJaTbzEqImOEW8JGpf
=ABEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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or implied. Use at your own risk or not at all.
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--amk (www.amk.ca)

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===================================================================
Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
    by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
    by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEjvBPtMfVQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLDHf6agk
evJnSJQAcVH3ZV1VYe51XgvDUMakZuU4SOV7MqkhsKA911e77PaD9VSYgn3ra5
gElw1DQDoOy5GExXMm74qqrdb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7
SK4w9VBIfY=3D
=3DQduY
-----END PGP SIGNATURE-----
on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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

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--amk                                                     (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Open Source Used in XE-Linux SDK  Cisco IOS XE Amsterdam 17.2.1

3766
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=C2=A0The contents of this file are dedicated to the public domain. =C2=A0To the
Yes, that's fine. Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >>
> >> That's great!
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> >> domain all your contributions to PyCrypto, with the following notice?
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> >> extent that dedication to the public domain is not available, everyone
> >> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> >> to exercise all rights associated with the contents of this file for
> >> any purpose whatsoever. No rights are reserved.
> >>
> >> Yes, that's fine. Good luck with the new release!
>
> Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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or implied. Use at your own risk or not at all.
===================================================================

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--amk
(www.amk.ca)

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goodel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
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    Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwowk@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> 
> The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)
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> (though that would be nice).
>
> --amk (www.amk.ca)
>
> For the next PyCrypto release, I would like to take steps to move toward a
> clearer licensing regime. I am asking as many copyright holders as I can
> find if I can release PyCrypto under something clearer and more standard.
> Below, I have quoted a public domain dedication that was recommended in
> _Intellectual Property and Open Source: A Practical Guide to Protecting
> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they
> have all approved the following dedication for their contributions.
>
> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
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> Regards,
> - Dwayne
>
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May  5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> >
> > Thanks for taking over the PyCrypto library and putting in the required
> > effort to keep this going.
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```
--amk (www.amk.ca)
```

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Regards,

- Dwayne
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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> 
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> to exercise all rights associated with the contents of this file
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> 
>
In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

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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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00INDEX         This file
LICENSE.orig    Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom  LICENSE file from LibTomCrypt
stmts/          Statements by contributors
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1.277 python-pygobject 3.28.3 :r0

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1.278.1 python-pyopenssl 18.0.0 :r0

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1.279 python-pyserial 3.4 :r0

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1.281 python-pytz 2018.5 :r0
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1.283 python-six 1.11.0 :r0

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1.284 python-uwsgi 2.0.18 :r0

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*******************
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*******************

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 https://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

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The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard
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--------------------------

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--------

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Original location:
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Solution inspired by code from:
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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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.
<table>
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<th>Owner</th>
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1.286 python3-gevent 1.2.2 :r0

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1.287 python3-pycrypto 2.6.1 :r0

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Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
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by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
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X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

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SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

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Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

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<td>PSF</td>
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From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
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X-Homepage: http://www.dlitz.net/
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preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461

Lines: 78
Hi Andrew,

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---

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

--=20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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Content-Disposition: inline

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--YiEDa0DAkWCtVeE4--
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

You may.
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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--amk (www.amk.ca)

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Regards,
- Dwayne
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
  for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
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Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
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Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
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Received: [69,124,140,74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
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> GPL-compatible, etc. Right now, I'm not really sure
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Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.

> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

> Regards,
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```

Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1

1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
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> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> >
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
> >
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> >
> > =
> > =
> >

In case I haven’t replied to this yet: Yes, this is fine with me.

robey
On November 23, 2008, you wrote:
> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
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> PyCrypto, with the following notice?
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> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A2A 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
    for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
    for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)
Received: (qmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
    by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
    for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
    (envelope-sender <joris@bontje.nl>)
    by 10.170.1.96 (qmail-ldap-1.03) with SMTP
    for < >; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

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> 
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--amk (www.amk.ca)

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
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I understand that you have made contributions to PyCrypto, under nickname “z3p” and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
        for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
        for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
    Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

That's great!
> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> 
> =C2=A0The contents of this file are dedicated to the public domain. =C2==
> =A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> 
> =C2=A0exercise all rights associated with the contents of this file for
> 
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.

Yes, that's fine. Good luck with the new release!

-p

--.=20

Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >
> >That's great!
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> >>to exercise all rights associated with the contents of this file for
> >>any purpose whatsoever. No rights are reserved.
> >>======================================================================
> >
> >Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Hi Barry,

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

Open Source Used In XE-Linux SDK  Cisco IOS XE Amsterdam 17.2.1 3874
Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
  for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
  for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
  envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
  by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
  for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
  by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
  for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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Regards,
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Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Mailldir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
Hi Dwayne,
My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
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(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

```plaintext
=== EOF ===
```

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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Version 2.1, February 1999

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---

1.289 python3-pyyaml 3.13 :r0
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1.290 python3-setuptools 40.0.0 :r0

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1.291 qemu 3.0.0 :r0

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

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<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.

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

That's all there is to it!
#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
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#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
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#define TARGET_NETBSD_NR_getuid 24
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#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_prof1 44
#define TARGET_NETBSD_NR_ktrace 45
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#define TARGET_NETBSD_NR_getgid 47
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#define TARGET_NETBSD_NR_setegid 182
#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_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#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___sysct1 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR___sysct1 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_sigaltstack14         281
#define TARGET_NETBSD_NR_vfork14               282
#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_sigpending14          292
#define TARGET_NETBSD_NR_sigprocmask14         293
#define TARGET_NETBSD_NR_sigsuspend14          294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 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_semctl13              301
#define TARGET_NETBSD_NR_msgctl13              302
#define TARGET_NETBSD_NR_shmctl13              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_fhstatvfs1 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_setsattr 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
#define TARGET_NETBSD_NR___getdents30        390
#define TARGET_NETBSD_NR_compat_30___fhstat30        392
#define TARGET_NETBSD_NR___ntp_gettime30     393
#define TARGET_NETBSD_NR___socket30  394
#define TARGET_NETBSD_NR___getfh30   395
#define TARGET_NETBSD_NR___fhopen40  396
#define TARGET_NETBSD_NR___fhstatvfs140      397
#define TARGET_NETBSD_NR___fhstat40  398
#define TARGET_NETBSD_NR_aio_cancel  399
#define TARGET_NETBSD_NR_aio_error   400
#define TARGET_NETBSD_NR_aio_fsync   401
#define TARGET_NETBSD_NR_aio_read    402
#define TARGET_NETBSD_NR_aio_return  403
#define TARGET_NETBSD_NR_aio_suspend 404
#define TARGET_NETBSD_NR_aio_write   405
#define TARGET_NETBSD_NR_lio_listio  406
#define TARGET_NETBSD_NR___mount50   410
#define TARGET_NETBSD_NR_mremap      411
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy 413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR_pset_bind  415
#define TARGET_NETBSD_NR___posix_fadvise50   416

/*
 * FreeBSD strace list
 *
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*/

[ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s("%s", %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL ],
[ TARGET_FREEBSD_NR__umtx_op, "umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL ],
[ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL ],
[ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL ],
[ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL ],
[ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL ],
[ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)", NULL, NULL ],
[ TARGET_FREEBSD_NR_execute, "execute", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)", NULL, NULL ],
[ TARGET_FREEBSD_NR_execv, "execv", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_execvpe, "execvpe", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_execve, "execve", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_execvp, "execvp", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)", NULL, NULL ],
[ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s", %d, "%s", %d, "%s")", NULL, NULL ],
[ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, "%s")", NULL, NULL ],
[ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s", %d, "%s")", NULL, NULL ],
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quoactl, "quoactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(%s",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke    56
#define TARGET_FREEBSD_NR_symlink   57
#define TARGET_FREEBSD_NR_readlink  58
#define TARGET_FREEBSD_NR_execve    59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot    61
        /* 62 is old fstat */
        /* 63 is old getkerninfo */
        /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
        /* 67 is obsolete vread */
        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk   70
        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap  73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
        /* 76 is obsolete vhangup */
        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
        /* 87 is old gethostname */
        /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl   92
#define TARGET_FREEBSD_NR_select  93
#define TARGET_FREEBSD_NR_fsync   95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket  97
#define TARGET_FREEBSD_NR_connect 98
        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
        /* 101 is old send */
        /* 102 is old recv */
        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind   104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen  106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev    121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown    123
#define TARGET_FREEBSD_NR_fchmod    124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid  127
#define TARGET_FREEBSD_NR_rename    128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo    132
#defineTARGET_FREEBSD_NR_sendto    133
#define TARGET_FREEBSD_NR_shutdown  134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes    138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime   140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid  147
#define TARGET_FREEBSD_NR_quotactl  148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc    155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_npt_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirententries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgrsnd 226
#define TARGET_FREEBSD_NR_msgqcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanoseconds 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312

/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
     /* 322 is obsolete thr_sleep */
     /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_uctrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_getfsstat 394
#define TARGET_FREEBSD_NR_statfs 395
#define TARGET_FREEBSD_NR_fstatfs 396
#define TARGET_FREEBSD_NR_fhstatfs 397
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigretum 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_p Peel 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknoat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 521
#define TARGET_FREEBSD_NR_getloginclass 522
#define TARGET_FREEBSD_NR_setloginclass 523
#define TARGET_FREEBSD_NR_rectl_get_racct 524
#define TARGET_FREEBSD_NR_rectl_get_rules 525
#define TARGET_FREEBSD_NR_rectl_get_limits 526
#define TARGET_FREEBSD_NR_rectl_add_rule 527
#define TARGET_FREEBSD_NR_rectl_remove_rule 528
/* 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_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NRUnmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#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 62
#define TARGET_OPENBSD_NR_sbrk 63
#define TARGET_OPENBSD_NR_ioctl 64
#define TARGET_OPENBSD_NR_sstk 65
#define TARGET_OPENBSD_NR_munmap 66
#define TARGET_OPENBSD_NR_mprotect 67
#define TARGET_OPENBSD_NR_madvise 68
#define TARGET_OPENBSD_NR_mincore 69
#define TARGET_OPENBSD_NR_getgroups 70
#define TARGET_OPENBSD_NR_setgroups 71
#define TARGET_OPENBSD_NR_getpgrp 72
#define TARGET_OPENBSD_NR_setpgid 73
#define TARGET_OPENBSD_NR_setitimer 74
#define TARGET_OPENBSD_NR_getitimer 75
#define TARGET_OPENBSD_NR_dup2 76
#define TARGET_OPENBSD_NR_fcntl 77
#define TARGET_OPENBSD_NR_select 78
#define TARGET_OPENBSD_NR_fsync 79
#define TARGET_OPENBSD_NR_setpriority 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setpgid 83
#define TARGET_OPENBSD_NR_getitimer 84
#define TARGET_OPENBSD_NR_dup2 85
#define TARGET_OPENBSD_NR_fcntl 86
#define TARGET_OPENBSD_NR_select 87
# define TARGET_OPENBSD_NR_fsync 88
# define TARGET_OPENBSD_NR_setpriority 89
# define TARGET_OPENBSD_NR_socket 90
# define TARGET_OPENBSD_NR_connect 91
# define TARGET_OPENBSD_NR_getpriority 92
# define TARGET_OPENBSD_NR_sigreturn 93
# define TARGET_OPENBSD_NR_bind 94
# define TARGET_OPENBSD_NR_setsockopt 95
# define TARGET_OPENBSD_NR_listen 96
# define TARGET_OPENBSD_NR_sigsuspend 97
# define TARGET_OPENBSD_NR_gettimeofday 98
# define TARGET_OPENBSD_NR_getrusage 99
# define TARGET_OPENBSD_NR_getsockopt 100
# define TARGET_OPENBSD_NR_setsockopt 101
# define TARGET_OPENBSD_NR_getsockopt 102
#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_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_breakwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirent 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfs_ioctl 208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep   240
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
#define TARGET_OPENBSD_NR_preadv      267
#define TARGET_OPENBSD_NR_pwritev     268
#define TARGET_OPENBSD_NR_kqueue      269
#define TARGET_OPENBSD_NR_kevent      270
#define TARGET_OPENBSD_NR_mlockall    271
#define TARGET_OPENBSD_NR_munlockall  272
#define TARGET_OPENBSD_NR_closefrom   287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_semop       290
#define TARGET_OPENBSD_NR_fstat       291
#define TARGET_OPENBSD_NR_lstat       293
#define TARGET_OPENBSD_NR___semctl    295
#define TARGET_OPENBSD_NR_shmctl      296
#define TARGET_OPENBSD_NR_msgctl      297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs    309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*/

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
    /* 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 EPIPE 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 EPROTONOSUPPORT 43    /* Protocol not supported */
#define TARGET ESOCKTNOSUPPORT 44    /* Socket type not supported */
#define TARGET EOPNOTSUPP 45    /* Operation not supported */
#define TARGET EPFNOSUPPORT 46    /* Protocol family not supported */
#define TARGET EAFNOSUPPORT 47    /* Address family not supported by protocol family */
#define TARGET EADDRINUSE 48    /* Address already in use */
#define TARGET EADDRNOTAVAIL 49    /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET ENETDOWN 50    /* Network is down */
#define TARGET ENETUNREACH 51    /* Network is unreachable */
#define TARGET ENETRESET 52    /* Network dropped connection on reset */
#define TARGET ECONNABORTED 53    /* Software caused connection abort */
#define TARGET ECONNRESET 54    /* Connection reset by peer */
#define TARGET ENOBUFS 55    /* No buffer space available */
#define TARGET EISCONN 56    /* Socket is already connected */
#define TARGET ENOTCONN 57    /* Socket is not connected */
#define TARGET ESHUTDOWN 58    /* Can't send after socket shutdown */
#define TARGET ETOOMANYREFS 59    /* Too many references: can't splice */

#define TARGET_ETIMEDOUT 60  /* Operation timed out */
#define TARGET_ECONNREFUSED 61  /* Connection refused */

#define TARGET_ELOOP 62  /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63  /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64  /* Host is down */
#define TARGET_EHOSTUNREACH 65  /* No route to host */
#define TARGET_ENOTEMPTY 66  /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67  /* Too many processes */
#define TARGET_EUSERS 68  /* Too many users */
#define TARGET_EDQUOT 69  /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70  /* Stale NFS file handle */
#define TARGET_EREMOTE 71  /* Too many levels of remote in path */
#define TARGET_EBADRPC 72  /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73  /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74  /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75  /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76  /* Bad procedure for program */

#define TARGET_ENOLCK 77  /* No locks available */
#define TARGET_ENOSYS 78  /* Function not implemented */

#define TARGET_EFTYPE 79  /* Inappropriate file type or format */
#define TARGET_EAUTH 80  /* Authentication error */
#define TARGET_ENEEDAUTH 81  /* Need authenticator */
#define TARGET_EIPSEC 82  /* IPsec processing failure */
#define TARGET_ENOATTR 83  /* Attribute not found */
#define TARGET_EILSEQ 84  /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85  /* No medium found */
#define TARGET_EMEDIANOTYPE 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 */

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*/

#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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@(#)mman.h  8.2 (Berkeley) 1/9/95

#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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#*****************************************************************************/

ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
    export TOP
endif

include $(TOP)/make.rules

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

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
+        x86emu_dump_xregs();
    } else {
    x86emu_dump_regs();
    }
+
x86emu_dump_regs();
+}
}
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;

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+ void x86emuOp2_bswap(u8 op2)
+ {
+     /* byte swap 32 bit register */
+     START_OF_INSTR();
+     DECODE_PRINTF("BSWAP\t");
+     switch (op2) {
+         case 0xc8:
+             DECODE_PRINTF("EAX\n");
+             M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+             break;
+         case 0xc9:
+             DECODE_PRINTF("ECX\n");
+             M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+             break;
+         case 0xca:
+             DECODE_PRINTF("EDX\n");
+             M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+             break;
+         case 0xcb:
+             DECODE_PRINTF("EBX\n");
+             M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+             break;
+         case 0xcc:
+             DECODE_PRINTF("ESP\n");
+             M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+             break;
+         case 0xcd:
+             DECODE_PRINTF("EBP\n");
+             M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+             break;
+         case 0xce:
+             DECODE_PRINTF("ESI\n");
+             M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+             break;
+         case 0xcf:
+             DECODE_PRINTF("EDI\n");
+             M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+             break;
+     }
+     TRACE_AND_STEP();
+     DECODE_CLEAR_SEGOVR();
+     END_OF_INSTR();
+ }
+ /* 0xc5 */ x86emuOp2_illegal_op,
+ /* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc1 */ x86emuOp2_illegal_op,
/* 0xc2 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc3 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_long(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    if (cond) {
    M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    count = M.x86.R_CX;
    count = M.x86.mode & SYSMODE_32BIT_REP ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    count = M.x86.R_CX;
    count = M.x86.mode & SYSMODE_32BIT_REP ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            - M.x86.R_CX -= 1;
        }
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            if (M.x86.mode & SYSMODE_PREFIX Респуб) {
                break;
            }
            else {
                M.x86.R_SI += inc;
                M.x86.R_DI += inc;
                if (M.x86.mode & SYSMODE_PREFIX_REPE) {
                    break;
                }
                if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
                    break;
                }
                if (M.x86.intr & INTR_HALTED) {
                    break;
                }
            }
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, (u16)val2);
                - M.x86.R_CX -= 1;
            }
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }
            if (M.x86.R_CX != 0) {
                M.x86.R_SI += inc;
            }
        }
    }
}
M.x86.R_D1 += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALT)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.intr & INTR_HALT)
+ break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
 M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
 M.x86.mode &= ~SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2795,6 +2826,8 @@
 store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
 }
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALT)
+ break;


DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-            /* move them until CX is ZERO. */
-            while (M.x86.R_CX != 0) {
+            /* move them until (E)CX is ZERO. */
+            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-                M.x86.R_CX -= 1;
+                if (M.x86.mode & SYSMODE_32BIT_REP)
+                    M.x86.R_ECX -= 1;
+                else
+                    M.x86.R_CX -= 1;
                M.x86.R_SI += inc;
+                if (M.x86.intr & INTR_HALTED)
+                    break;
            }
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        } else {
@@ -2859,9 +2897,11 @@
            count = 1;
            if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
                /* dont care whether REPE or REPNE */
-                /* move them until CX is ZERO. */
-                count = M.x86.R_CX;
+                /* move them until (E)CX is ZERO. */
+                count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
                M.x86.R_CX = 0;
+                if (M.x86.mode & SYSMODE_32BIT_REP)
+                    M.x86.R_ECX = 0;
                M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
            }
            while (count--) {
@@ -2871,6 +2911,8 @@
                M.x86.R_AX = fetch_data_word(M.x86.R_SI);
            }
            M.x86.R_SI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        inc = 1;
    }
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            + else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            + if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                - M.x86.R_CX -= 1;
                + if (M.x86.mode & SYSMODE_32BIT_REP)
                    M.x86.R_ECX -= 1;
                + else
                    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
                if (ACCESS_FLAG(F_ZF))
                    break;  /* zero flag set means equal */
                + if (M.x86.intr & INTR_HALTED)
                    break;
            }
            M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
        } else {
            @@ -2951,8 +3003,8 @@
            TRACE_AND_STEP();
            if (M.x86.mode & SYSMODE_PREFIX_REPE) {
                /* REPE */
                - /* move them until CX is ZERO. */
                - while (M.x86.R_CX != 0) {
                    + /* move them until (E)CX is ZERO. */
                    + if (M.x86.mode & SYSMODE_32BIT_REP)
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
+    if (M.x86.intr & INTR_HALTED)
        break;
} else if (M.x86.mode & SYSMODE_PREFIX_REP) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        }
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
    }
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    +    M.x86.R_ECX -= 1;
    + else
    +    M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;    /* zero flag set means equal */
    +    if (M.x86.intr & INTR_HALTED)
    +        break;
    } else {
    @@ -3238,9 +3300,9 @@
        DECODE_PRINTF("RET\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@ @ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@ @ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 && !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
- M.x86.R_IP = ip;
- DECODE_CLEAR_SEGOVR();
- END_OF_INSTR();
@ @ -4041.8 +4106.11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@ @ -4062.8 +4130.11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@ @ -4085.8 +4156.10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
    M.x86.R_IP = target;
    +JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }  
    DECODE_CLEAR_SEGOVR();  
    END_OF_INSTR();
}  
@@ -4213,6 +4286,7 @@  
ip = (s16)fetch_word_imm();  
ip += (s16)M.x86.R_IP;  
DECODE_PRINTF2("%04x\n", ip);  
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");  
    TRACE_AND_STEP();  
    M.x86.R_IP = (u16)ip;  
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@  
    cs = fetch_word_imm();  
    DECODE_PRINTF2("%04x:", cs);  
    DECODE_PRINTF2("%04x\n", ip);  
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");  
    TRACE_AND_STEP();  
    M.x86.R_IP = ip;  
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@  
    offset = (s8)fetch_byte_imm();  
    target = (u16)(M.x86.R_IP + offset);  
    DECODE_PRINTF2("%x\n", target);  
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");  
    TRACE_AND_STEP();  
    M.x86.R_IP = target;  
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,14 @@  
    DECODE_PRINTF("REPNE\n");  
    TRACE_AND_STEP();  
    M.x86.mode |= SYSMODE_PREFIX_REPNE;  
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)  
+        M.x86.mode |= SYSMODE_32BIT_REP;  
+    DECODE_CLEAR_SEGOVR();  
+    END_OF_INSTR();
    }
@@ -4371,6 +4449,8 @@  
    DECODE_PRINTF("REPE\n");  
    TRACE_AND_STEP();  
    M.x86.mode |= SYSMODE_PREFIX_REPE;  
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)  
+        M.x86.mode |= SYSMODE_32BIT_REP;  
    DECODE_CLEAR_SEGOVR();  
    END_OF_INSTR();
}  
@@ -5013,12 +5093,14 @@  
        break;
case 4: /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;

case 5: /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s32)d * (s64)(s32)s;
    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
    @ @ -1921.7 +1921.7 @@
void mul_long(u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    @ @ -2312.16 +2312.15 @@
}
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;

- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

- if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
-  /* out until CX is ZERO. */
-  u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+  /* out until (E)CX is ZERO. */
+  u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.R ECX : M.x86.R CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000
+++ sys.c 7 Sep 2007 10:03:13 -0000
@@ -45,11 +45,6 @@
 #include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);
  -return inb(addr);
  +return 0;
  }

/****************************************************************************
@@ -235,7 +230,7 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);
  -return inw(addr);
  +return 0;
  }

/****************************************************************************
@@ -250,7 +245,7 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("inl %#04x \n", addr);
  -return inl(addr);
  +return 0;
  }

/****************************************************************************
@@ -264,7 +259,6 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);
  -outb(val, addr);
  return;
  }

@@ -279,7 +273,6 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);
  -outw(val, addr);
  return;
  }

@@ -295,7 +288,6 @@
  DB(if (DEBUG_IO_TRACE())
  printk("outl %#08x -> %#04x \n", val, addr);

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4044
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_REGS_F)
#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT() 0
#define DEBUG_TRACECALL() 0
#define DEBUG_TRACECALLREGS() 0
#define DEBUG_TRACEJMP() 0
#define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS() 0
#define DEBUG_MEM_TRACE() 0
#define DEBUG_IO_TRACE() 0
x86emu_dump_regs();
if (DEBUG_TRACECALL())
   printk("%04x:%04x: CALL %s %04x:%04x\n", u, v, s, w, x);
+# define RETURN_TRACE(u,v)
if (DEBUG_TRACECALLREGS())
   x86emu_dump_regs();
if (DEBUG_TRACECALL())
   printk("%04x:%04x: CALL %s %04x:%04x\n", u, v, s, w, x);
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
   x86emu_dump_regs();
if (DEBUG_TRACECALL())
   x86emu_dump_regs();
if (DEBUG_TRACECALLREGS())
   x86emu_dump_regs();
if (DEBUG_TRACECALL())
   x86emu_dump_regs();
if (DEBUG_TRACECALLREGS())
   x86emu_dump_regs();
if (DEBUG_TRACEJMPREGS())
   printk("%04x:%04x: %s\n", u, v, n);
+   printk("%04x:%04x: RET %s %04x:%04x\n", u, v, s, w, x);
+# define JMP_TRACE(u,v,w,x,s)
if (DEBUG_TRACEJMPREGS())
   x86emu_dump_regs();
if (DEBUG_TRACEJMP())
   printk("%04x:%04x: JMP %s %04x:%04x\n", u, v, s, w, x);
#else
#define CALL_TRACE(u,v,w,x,s)
#define RETURN_TRACE(n,u,v)
#define JMP_TRACE(u,v,w,x,s)
#endif
#ifdef DEBUG

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 SYSMODE_PREFIX_ADDR | \
 SYSMODE_32BIT_REP
 SYSMODE_INTR_PENDING 0x10000000
 SYSMODE_EXTRN_INTR 0x20000000
 SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS | \
 SYSMODE_SEGOVR_SS | \
 SYSMODE_PREFIX_DATA | \
-  SYSMODE_PREFIX_ADDR)
+  SYSMODE_PREFIX_ADDR | \
 */

-- End of file --

+ SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTRASYNCH 0x1
#define INTRASYNCH 0x2
@@ -274,9 +278,9 @@
 /*mask of pending interrupts */
 int debug;
 volatile int intr;

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
+    #define printk printf
 #endif
@@ -189,6 +181,8 @@
 #define DEBUG_TRACEJMP_REGS_F 0x040000
 #define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
 void X86EMU_trace_regs(void);
@@ -199,5 +194,4 @@
 #ifdef __cplusplus
 		/* End of “C” linkage for C++ */
 #endif
-#endif /* __X86EMU_X86EMU_H */
# * *****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
# * ****************************************************************************/

ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
    export TOP
endif

include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I -I/include/x86emu \
    -I$(TOP)/clients/net-snkn/include -I$(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
#set -x
#set -e

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 director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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Version 2, June 1991

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

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The 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.)

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1.295 readline 7.0 :r0

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.303 screen 4.6.2 :r0

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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 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.

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1.312 sfdisk 2.25.2 :r0

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
Disk <removed>: 10 MiB, 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
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
Disk <removed>: 10 MiB, 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
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

-------------------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 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
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

-----------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 4096 20479 16384 8M unused 0 0 0
d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type    Fsize Bsize Cpg
a     4096  6144    2049    1M  4.2BSD       0     0   0
b     32768 77967   45200    8M unused       0     0   0
c     0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0 unused      5  4.1BSD      9  4.4LFS       d boot
1   swap     6  Eighth Edition a unknown   e ADOS
2  Version 6   7  4.2BSD     b  HPFS       f  HFS
3  Version 7    8  MS-DOS      c ISO-9660    10  AdvFS
4  System V

Command (m for help):

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1.313 sg3-utils 1.42 :r0

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Version 2, June 1991

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1.316 shadow-sysroot 4.6 :r3

1.317 shared-mime-info 1.10 :r0

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1.326 sysklogd 1.5.1 :r0

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1.328 systemd 239 :r0

1.329 systemd-bootchart 233 :r0
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1.338 thin-provisioning-tools 0.7.6 :r0

1.339 tipcconfig 2.0.6 :r0

1.340 tipcutils 2.2.0 :r0

1.341 traceroute 2.1.0 :r0

1.341.1 Available under license:

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releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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-----

The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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1.344 update-rc.d 0.8 :r0

1.345 usbutils 010 :r0

1.346 util-linux 2.32.1 :r0

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1.347 util-macros 1.19.2 :r0

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1.348 valgrind 3.14.0 :r0

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1.350 volatile-binds 1.0 :r0

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1.351 wget 1.19.5 :r0
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#include "wget.h"
#include "hash.h"
#include "utils.h"
#include "version.h"
#include "dirname.h"
#include "url.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <tmpdir.h>
#include <sha1.h>
#include <base32.h>
#include <unistd.h>
#ifndef HAVE_LIBZ...
#include <zlib.h>
#endif

#ifdef HAVE_LIBUUID
#include <uuid/uuid.h>
#else HAVE_UUID_CREATE
#include <uuid.h>
#endif
#include "warc.h"
#include "exits.h"

#ifdef WINDOWS
/* we need this on Windows to have O_TEMPORARY defined */
#include <fcntl.h>
#include <rpc.h>
#endif

#ifndef O_TEMPORARY
#define O_TEMPORARY 0
#endif
#include "warc.h"
#include "exits.h"

/* The log file (a temporary file that contains a copy
 * of the wget log). */
static FILE *warc_log_fp;

/* The manifest file (a temporary file that contains the
 * warcinfo uuid of every file in this crawl). */
static FILE *warc_manifest_fp;

/* The current WARC file (or NULL, if WARC is disabled). */
static FILE *warc_current_file;
#endif HAVE_LIBZ
/* The gzip stream for the current WARC file
 * (or NULL, if WARC or gzip is disabled). */
static gzFile warc_current_gzfile;

/* The offset of the current gzip record in the WARC file. */
static off_t warc_current_gzfile_offset;

/* The uncompressed size (so far) of the current record. */
static off_t warc_current_gzfile_uncompressed_size;
#endif
/* This is true until a warc_write_* method fails. */
static bool warc_write_ok;

/* The current CDX file (or NULL, if CDX is disabled). */
static FILE *warc_current_cdx_file;

/* The record id of the warcinfo record of the current WARC file. */
static char warc_current_warcinfo_uuid_str[48];

/* The file name of the current WARC file. */
static char *warc_current_filename;

/* The serial number of the current WARC file. This number is
incremented each time a new file is opened and is used in the
WARC file's filename. */
static int warc_current_file_number;

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table *warc_cdx_dedup_table;

static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
    char *url;
    char *uuid;
    char digest[SHA1_DIGEST_SIZE];
};

static unsigned long warc_hash_sha1_digest (const void *key)
{
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, key, sizeof (unsigned long));
    return v;
}

static int warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
    return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}
/* Writes SIZE bytes from BUFFER to the current WARC file, 
   through gzwrite if compression is enabled. 
   Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
    #ifdef HAVE_LIBZ
    if (warc_current_gzfile)
    {
        warc_current_gzfile_uncompressed_size += size;
        return gzwrite (warc_current_gzfile, buffer, size);
    }
    else
#endif
    return fwrite (buffer, 1, size, warc_current_file);
}

/* Writes STR to the current WARC file. 
   Returns false and set warc_write_ok to false if there 
   is an error. */
static bool
warc_write_string (const char *str)
{
    size_t n;

    if (!warc_write_ok)
        return false;

    n = strlen (str);
    if (n != warc_write_buffer (str, n))
        warc_write_ok = false;

    return warc_write_ok;
}

#define EXTRA_GZIP_HEADER_SIZE 14
#define GZIP_STATIC_HEADER_SIZE 10
#define FLG_FEXTRA 0x04
#define OFF_FLG 3

/* Starts a new WARC record. Writes the version header. 
   If opt.warc_maxsize is set and the current file is becoming 
   too large, this will open a new WARC file.

   If compression is enabled, this will start a new 
gzip stream in the current WARC file.*/
Returns false and set warc_write_ok to false if there is an error. */
static bool
warc_write_start_record (void)
{
    if (!warc_write_ok)
        return false;

    fflush (warc_current_file);
    if (opt.warc_maxsize > 0 && ftello (warc_current_file) >= opt.warc_maxsize)
        warc_start_new_file (false);

#ifdef HAVE_LIBZ
    /* Start a GZIP stream, if required. */
    if (opt.warc_compression_enabled)
    {
        /* Record the starting offset of the new record. */
        warc_current_gzfile_offset = ftello (warc_current_file);

        /* Reserve space for the extra GZIP header field.
         * In warc_write_end_record we will fill this space
         * with information about the uncompressed and
         * compressed size of the record. */
        fseek (warc_current_file, EXTRA_GZIP_HEADER_SIZE, SEEK_CUR);
        fflush (warc_current_file);

        /* Start a new GZIP stream. */
        warc_current_gzfile = gzopen (dup (fileno (warc_current_file)), "wb9");
        warc_current_gzfile_uncompressed_size = 0;

        if (warc_current_gzfile == NULL)
        {
            logprintf (LOG_NOTQUIET,
                _("Error opening GZIP stream to WARC file\n");
            warc_write_ok = false;
            return false;
        }
    }
#endif

    warc_write_string ("WARC/1.0\n");
    return warc_write_ok;
}

/* Writes a WARC header to the current WARC record.
   This method may be run after warc_write_start_record and
   before warc_write_block_from_file. */
static bool
warc_write_header (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": ");
        warc_write_string (value);
        warc_write_string ("\r\n");
    }
    return warc_write_ok;
}

/* Writes a WARC header with a URI as value to the current WARC record.
   This method may be run after warc_write_start_record and
   before warc_write_block_from_file. */
static bool
warc_write_header_uri (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": <");
        warc_write_string (value);
        warc_write_string (">\r\n");
    }
    return warc_write_ok;
}

/* Copies the contents of DATA_IN to the WARC record.
   Adds a Content-Length header to the WARC record.
   Run this method after warc_write_header,
   then run warc_write_end_record. */
static bool
warc_write_block_from_file (FILE *data_in)
{
    /* Add the Content-Length header. */
    char content_length[MAX_INT_TO_STRING_LEN(off_t)];
    char buffer[BUFSIZ];
    size_t s;

    fseeko (data_in, 0L, SEEK_END);
    number_to_string (content_length, ftello (data_in));
    warc_write_header ("Content-Length", content_length);

    /* End of the WARC header section. */
    warc_write_string ("\r\n");

    if (fseeko (data_in, 0L, SEEK_SET) != 0)
warc_write_ok = false;

/* Copy the data in the file to the WARC record. */
while (warc_write_ok && (s = fread (buffer, 1, BUFSIZ, data_in)) > 0)
{
    if (warc_write_buffer (buffer, s) < s)
        warc_write_ok = false;
}
return warc_write_ok;
}

/* Run this method to close the current WARC record. */

If compression is enabled, this method closes the current GZIP stream and fills the extra GZIP header with the uncompressed and compressed length of the record. */
static bool
warc_write_end_record (void)
{
    warc_write_buffer ("\n\n", 4);

    #ifdef HAVE_LIBZ
    /* We start a new gzip stream for each record. */
    if (warc_write_ok && warc_current_gzfile)
        {
            char extra_header[EXTRA_GZIP_HEADER_SIZE];
            char static_header[GZIP_STATIC_HEADER_SIZE];
            off_t current_offset, uncompressed_size, compressed_size;
            size_t result;

            if (gzclose (warc_current_gzfile) != Z_OK)
                {
                    warc_write_ok = false;
                    return false;
                }

            fflush (warc_current_file);
            fseeko (warc_current_file, 0, SEEK_END);

            /* The WARC standard suggests that we add ‘skip length’ data in the extra header field of the GZIP stream. */

            In warc_write_start_record we reserved space for this extra header.
            This extra space starts at warc_current_gzfile_offset and fills EXTRA_GZIP_HEADER_SIZE bytes. The static GZIP header starts at warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE.
We need to do three things:
1. Move the static GZIP header to warc_current_gzfile_offset;
2. Set the FEXTRA flag in the GZIP header;
3. Write the extra GZIP header after the static header, that is, starting at warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE.

/* Calculate the uncompressed and compressed sizes. */
current_offset = ftello (warc_current_file);
uncompressed_size = current_offset - warc_current_gzfile_offset;
compressed_size = warc_current_gzfile_uncompressed_size;

/* Go back to the static GZIP header. */
seeko (warc_current_file, warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE, SEEK_SET);

/* Read the header. */
result = fread (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);
if (result != GZIP_STATIC_HEADER_SIZE)
{
    warc_write_ok = false;
    return false;
}

/* Set the FEXTRA flag in the flags byte of the header. */
static_header[OFF_FLG] = static_header[OFF_FLG] | FLG_FEXTRA;

/* Write the header back to the file, but starting at warc_current_gzfile_offset. */
seeko (warc_current_file, warc_current_gzfile_offset, SEEK_SET);
fwrite (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);

/* Prepare the extra GZIP header. */
/* XLEN, the length of the extra header fields. */
extra_header[0] = ((EXTRA_GZIP_HEADER_SIZE - 2) & 255);
extra_header[1] = ((EXTRA_GZIP_HEADER_SIZE - 2) >> 8) & 255;
/* The extra header field identifier for the WARC skip length. */
extra_header[2] = 's';
extra_header[3] = 'l';
/* The size of the field value (8 bytes). */
extra_header[4] = (8 & 255);
extra_header[5] = (8 >> 8) & 255;
/* The size of the uncompressed record. */
extra_header[6] = (uncompressed_size & 255);
extra_header[7] = (uncompressed_size >> 8) & 255;
extra_header[8] = (uncompressed_size >> 16) & 255;
extra_header[9] = (uncompressed_size >> 24) & 255;
/* The size of the compressed record. */
extra_header[10] = (compressed_size & 255);
extra_header[12] = (compressed_size >> 16) & 255;
extra_header[13] = (compressed_size >> 24) & 255;

/* Write the extra header after the static header. */
fseeko (warc_current_file, warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE, SEEK_SET);
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);

/* Done, move back to the end of the file. */
fflush (warc_current_file);
fseeko (warc_current_file, 0, SEEK_END);
}
#endif /* HAVE_LIBZ */

return warc_write_ok;
}

/* Writes the WARC-Date header for the given timestamp to the current WARC record. If timestamp is NULL, the current time will be used. */
static bool warc_write_date_header (const char *timestamp)
{
    char current_timestamp[21];

    return warc_write_header ("WARC-Date", timestamp ? timestamp : warc_timestamp (current_timestamp, sizeof(current_timestamp)));
}

/* Writes the WARC-IP-Address header for the given IP to the current WARC record. If IP is NULL, no header will be written. */
static bool warc_write_ip_header (const ip_address *ip)
{
    if (ip != NULL)
        return warc_write_header ("WARC-IP-Address", print_address (ip));
    else
        return warc_write_ok;
}

/* warc_sha1_stream_with_payload is a modified copy of sha1_stream..."}
Compute SHA1 message digests for bytes read from STREAM. The digest of the complete file will be written into the 16 bytes beginning at RES_BLOCK.

If payload_offset >= 0, a second digest will be calculated of the portion of the file starting at payload_offset and continuing to the end of the file. The digest number will be written into the 16 bytes beginning ad RES_PAYLOAD. */

static int
warc_sha1_stream_with_payload (FILE *stream, void *res_block, void *res_payload,
     off_t payload_offset)
{
#define BLOCKSIZE 32768

struct sha1_ctx ctx_block;
struct sha1_ctx ctx_payload;
off_t pos;
off_t sum;

char *buffer = xmalloc (BLOCKSIZE + 72);

/* Initialize the computation context. */
sha1_init_ctx (&ctx_block);
if (payload_offset >= 0)
    sha1_init_ctx (&ctx_payload);

pos = 0;

/* Iterate over full file contents. */
while (1)
{
    /* We read the file in blocks of BLOCKSIZE bytes. One call of the
     computation function processes the whole buffer so that with the
     next round of the loop another block can be read. */
    off_t n;
    sum = 0;

    /* Read block. Take care for partial reads. */
    while (1)
    {
        n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);

        sum += n;
        pos += n;

        if (sum == BLOCKSIZE)
break;

if (n == 0) {
    /* Check for the error flag IFF N == 0, so that we don't exit the loop after a partial read due to e.g., EAGAIN or EWOULDBLOCK. */
    if (ferror (stream)) {
        xfree (buffer);
        return 1;
    }
    goto process_partial_block;
}

/* We've read at least one byte, so ignore errors. But always check for EOF, since feof may be true even though N > 0. Otherwise, we could end up calling fread after EOF. */
if (feof (stream)) goto process_partial_block;

/* Process buffer with BLOCKSIZE bytes. Note that BLOCKSIZE % 64 == 0 */
sha1_process_block (buffer, BLOCKSIZE, &ctx_block);
if (payload_offset >= 0 && payload_offset < pos) {
    /* At least part of the buffer contains data from payload. */
    off_t start_of_payload = payload_offset - (pos - BLOCKSIZE);
    if (start_of_payload <= 0) /* All bytes in the buffer belong to the payload. */
        start_of_payload = 0;

    /* Process the payload part of the buffer.
    Note: we can't use sha1_process_block here even if we process the complete buffer. Because the payload doesn't have to start with a full block, there may still be some bytes left from the previous buffer. Therefore, we need to continue with sha1_process_bytes. */
    sha1_process_bytes (buffer + start_of_payload, BLOCKSIZE - start_of_payload, &ctx_payload);
}
}

process_partial_block::

/* Process any remaining bytes. */
if (sum > 0)
{
    sha1_process_bytes (buffer, sum, &ctx_block);
    if (payload_offset >= 0 && payload_offset < pos)
    {
        /* At least part of the buffer contains data from payload. */
        off_t start_of_payload = payload_offset - (pos - sum);
        if (start_of_payload <= 0)
            /* All bytes in the buffer belong to the payload. */
            start_of_payload = 0;

        /* Process the payload part of the buffer. */
        sha1_process_bytes (buffer + start_of_payload,
                           sum - start_of_payload, &ctx_payload);
    }
}

/* Construct result in desired memory. */
sha1_finish_ctx (&ctx_block, res_block);
if (payload_offset >= 0)
    sha1_finish_ctx (&ctx_payload, res_payload);
xfree (buffer);
return 0;

#undef BLOCKSIZE

/* Converts the SHA1 digest to a base32-encoded string.
"sha1: DIGEST\0" (Allocates a new string for the response.) */
static char *
warc_base32_sha1_digest (const char *sha1_digest, char *sha1_base32, size_t sha1_base32_size)
{
    if (sha1_base32_size >= BASE32_LENGTH(SHA1_DIGEST_SIZE) + 5 + 1)
    {
        memcpy (sha1_base32, "sha1:", 5);
        base32_encode (sha1_digest, SHA1_DIGEST_SIZE, sha1_base32 + 5,
                      sha1_base32_size - 5);
    }
    else
        *sha1_base32 = 0;

    return sha1_base32;
}

/* Sets the digest headers of the record.
This method will calculate the block digest and, if payload_offset >= 0,
will also calculate the payload digest of the payload starting at the
provided offset. /*
static void
warc_write_digest_headers (FILE *file, long payload_offset)
{
if (opt.warc_digests_enabled)
{
  /* Calculate the block and payload digests. */
  char sha1_res_block[SHA1_DIGEST_SIZE];
  char sha1_res_payload[SHA1_DIGEST_SIZE];

  rewind (file);
  if (warc_sha1_stream_with_payload (file, sha1_res_block,
    sha1_res_payload, payload_offset) == 0)
    {
    char digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];

    warc_write_header ("WARC-Block-Digest",
        warc_base32_sha1 digest (sha1_res_block, digest, sizeof(digest)));

    if (payload_offset >= 0)
      warc_write_header ("WARC-Payload-Digest",
        warc_base32_sha1 digest (sha1_res_payload, digest, sizeof(digest)));
    }
  }
}

/* Fills timestamp with the current time and date. 
The UTC time is formatted following ISO 8601, as required
for use in the WARC-Date header.
The timestamp will be 21 characters long. */
char *
warc_timestamp (char *timestamp, size_t timestamp_size)
{
  time_t rawtime = time (NULL);
  struct tm * timeinfo = gmtime (&rawtime);

  if (strftime (timestamp, timestamp_size, "%Y-%m-%dT%H:%M:%SZ", timeinfo) == 0 && timestamp_size > 0)
        *timestamp = 0;

  return timestamp;
}

/* Fills urn_str with a UUID in the format required
for the WARC-Record-Id header.
The string will be 47 characters long. */
#if HAVE_LIBUUID
void
warc_uuid_str (char *urn_str)
{
    char uuid_str[37];
    uuid_t record_id;

    uuid_generate (record_id);
    uuid_unparse (record_id, uuid_str);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
}
#endif HAVE_UUID_CREATE

void
warc_uuid_str (char *urn_str)
{
    char *uuid_str;
    uuid_t record_id;

    uuid_create (&record_id, NULL);
    uuid_to_string (&record_id, &uuid_str, NULL);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
    xfree (uuid_str);
}
#else
#endif

typedef RPC_STATUS (RPC_ENTRY * UuidCreate_proc) (UUID *);
typedef RPC_STATUS (RPC_ENTRY * UuidToString_proc) (UUID *, unsigned char **);
typedef RPC_STATUS (RPC_ENTRY * RpcStringFree_proc) (unsigned char **);

static int
windows_uuid_str (char *urn_str)
{
    static UuidCreate_proc pfn_UuidCreate = NULL;
    static UuidToString_proc pfn_UuidToString = NULL;
    static RpcStringFree_proc pfn_RpcStringFree = NULL;
    static int rpc_uuid_avail = -1;

    /* Rpcrt4.dll is not available on older versions of Windows, so we
     * need to test its availability at run time. */
    if (rpc_uuid_avail == -1)
    {
        HMODULE hm_rpcrt4 = LoadLibrary ("Rpcrt4.dll");

        if (hm_rpcrt4)
        {
            pfn_UuidCreate =
                (UuidCreate_proc) GetProcAddress (hm_rpcrt4, "UuidCreate");

            pfn_UuidToString =
                (UuidToString_proc) GetProcAddress (hm_rpcrt4, "UuidToString");

            pfn_RpcStringFree =
                (RpcStringFree_proc) GetProcAddress (hm_rpcrt4, "RpcStringFree");
        }
    }
PFN_UuidToString =  
(UuidToString_proc) GetProcAddress (hm_rpcrt4, "UuidToStringA");
PFN_RpcStringFree =  
(RpcStringFree_proc) GetProcAddress (hm_rpcrt4, "RpcStringFreeA");
if (PFN_UuidCreate && PFN_UuidToString && PFN_RpcStringFree)  
rpc_uuid_avail = 1;  
else  
rpc_uuid_avail = 0;  
}  
else  
rpc_uuid_avail = 0;  
}
if (rpc_uuid_avail)  
{  
BYTE *uuid_str;  
UUID uuid;

if (PFN_UuidCreate (&uuid) == RPC_S_OK)  
{  
if (PFN_UuidToString (&uuid, &uuid_str) == RPC_S_OK)  
{  
sprintf (urn_str, "<urn:uuid:%s>", uuid_str);  
PFN_RpcStringFree (&uuid_str);  
return 1;  
}  
}  
}
return 0;  
}  
#endif  
/* Fills urn_str with a UUID based on random numbers in the format  
required for the WARC-Record-Id header.  
(See RFC 4122, UUID version 4.)  
Note: this is a fallback method, it is much better to use the  
methods provided by libuuid.  

The string will be 47 characters long. */  
void  
warc_uuid_str (char *urn_str)  
{  
/* RFC 4122, a version 4 UUID with only random numbers */  

unsigned char uuid_data[16];  
int i;

#ifdef WINDOWS
/* If the native method fails (expected on older Windows versions),
   use the fallback below. */
if (windows_uuid_str (urn_str))
    return;
#endif

for (i=0; i<16; i++)
    uuid_data[i] = random_number (255);

/* Set the four most significant bits (bits 12 through 15) of the
 * time_hi_and_version field to the 4-bit version number */
uuid_data[6] = (uuid_data[6] & 0x0F) | 0x40;

/* Set the two most significant bits (bits 6 and 7) of the
 * clock_seq_hi_and_reserved to zero and one, respectively. */
uuid_data[8] = (uuid_data[8] & 0xBF) | 0x80;

sprintf (urn_str,
    "<urn:uuid:%02x%02x%02x%02x-%02x%02x-%02x%02x-%02x%02x-%02x%02x%02x%02x%02x>",
    uuid_data[0], uuid_data[1], uuid_data[2], uuid_data[3], uuid_data[4],
    uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
    uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13], uuid_data[14],
    uuid_data[15]);
#endif

/* Write a warcinfo record to the current file.
   Updates warc_current_warcinfo_uuid_str, */
static bool
warc_write_warcinfo_record (const char *filename)
{
    FILE *warc_tmp;
    char timestamp[22];
    char *basename;

    /* Write warc-info record as the first record of the file. */
    /* We add the record id of this info record to the other records in the
       file. */
    warc_uuid_str (warc_current_warcinfo_uuid_str);

    warc_timestamp (timestamp, sizeof(timestamp));

    filename_basename = base_name (filename);

    warc_write_start_record ();
    warc_write_header ("WARC-Type", "warcinfo");
    warc_write_header ("Content-Type", "application/warc-fields");
    warc_write_header ("WARC-Date", timestamp);
warc_write_header("WARC-Record-ID", warc_current_warcinfo_uuid_str);
warc_write_header("WARC-Filename", filename_basename);

xfree (filename_basename);

<!--[4533]-->/* Create content. */
warctmp = warc_tempfile();
if (warctmp == NULL)
{
  return false;
}

fprintf (warctmp, "software: Wget/%s (%s)\n", version_string, OS_TYPE);
fprintf (warctmp, "format: WARC File Format 1.0\n");
fprintf (warctmp, "conformsTo: http://bibnum.bnf.fr/WARC/WARC_ISO_28500_version1_latedraft.pdf\n");
fprintf (warctmp, "robots: %s\n", (opt.use_robots ? "classic" : "off"));
fprintf (warctmp, "wget-arguments: %s\n", program_argstring);

/* Add the user headers, if any. */
if (opt.warc_user_headers)
{
  int i;
  for (i = 0; opt.warc_user_headers[i]; i++)
    fprintf (warctmp, "%s\n", opt.warc_user_headers[i]);
}
fprintf(warctmp, "\n");

warc_write_digest_headers (warctmp, -1);
warc_write_block_from_file (warctmp);
warc_write_end_record ();

if (! warc_write_ok)
  logprintf (LOG_NOTQUIET, _:"Error writing warcinfo record to WARC file.\n");

fclose (warctmp);
return warc_write_ok;

<!--[4533]-->/* Opens a new WARC file.
If META is true, generates a filename ending with 'meta.warc.gz'.

This method will:
1. close the current WARC file (if there is one);
2. increment warc_current_file_number;
3. open a new WARC file;
4. write the initial warcinfo record.

Returns true on success, false otherwise.```
static bool warc_start_new_file (bool meta)
{
    #ifdef __VMS
    # define WARC_GZ "warc-gz"
    #else /* def __VMS */
    # define WARC_GZ "warc.gz"
    #endif /* def __VMS [else] */

    #ifdef HAVE_LIBZ
    const char *extension = (opt.warc_compression_enabled ? WARC_GZ : "warc");
    #else
    const char *extension = "warc";
    #endif

    int base_filename_length;
    char *new_filename;

    if (opt.warc_filename == NULL)
        return false;

    if (warc_current_file != NULL)
        fclose (warc_current_file);

    *warc_current_warcinfo_uuid_str = 0;
    xfree (warc_current_filename);

    warc_current_file_number++;

    base_filename_length = strlen (opt.warc_filename);
    /* filename format:  base + "-" + 5 digit serial number + ".warc.gz" */
    new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);
    warc_current_filename = new_filename;

    /* If max size is enabled, we add a serial number to the file names. */
    if (meta)
        sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
    else if (opt.warc_maxsize > 0)
    {
        sprintf (new_filename, "%s-%05d.%s", opt.warc_filename,
                warc_current_file_number, extension);
    }
    else
        sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

    logprintf (LOG_VERBOSE, _("Opening WARC file %s\n"), quote (new_filename));
/* Open the WARC file. */
warct_current_file = fopen (new_filename, "wb+");
if (warct_current_file == NULL)
{
    logprintf (LOG_NOTQUIET, _("Error opening WARC file %s.
"),
              quote (new_filename));
    return false;
}
if (! warc_write_warcinfo_record (new_filename))
    return false;

/* Add warcinfo uuid to manifest. */
if (warc_manifest_fp)
    fprintf (warc_manifest_fp, "%s
", warc_current_warcinfo_uuid_str);
return true;
}

/* Opens the CDX file for output. */
static bool warc_start_cdx_file (void)
{
    int filename_length = strlen (opt.warc_filename);
    char *cdx_filename = alloca (filename_length + 4 + 1);
    memcpy (cdx_filename, opt.warc_filename, filename_length);
    memcpy (cdx_filename + filename_length, ".cdx", 5);
    warc_current_cdx_file = fopen (cdx_filename, "a+");
    if (warc_current_cdx_file == NULL)
        return false;

    /* Print the CDX header.
        * a - original url
        * b - date
        * m - mime type
        * s - response code
        * k - new style checksum
        * r - redirect
        * M - meta tags
        * V - compressed arc file offset
        * g - file name
        * u - record-id
        */
    fprintf (warc_current_cdx_file, " CDX a b m s k r M V g u
");
    fflush (warc_current_cdx_file);
return true;
}

#define CDX_FIELDSEP " \t\n"

/* Parse the CDX header and find the field numbers of the original url, checksum and record ID fields. */
static bool
warc_parse_cdx_header (char *lineptr, int *field_num_original_url,
int *field_num_checksum, int *field_num_record_id)
{
    char *token;
    char *save_ptr;

    *field_num_original_url = -1;
    *field_num_checksum = -1;
    *field_num_record_id = -1;

    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);

    if (token != NULL && strcmp (token, "CDX") == 0)
    {
        int field_num = 0;
        while (token != NULL)
        {
            token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
            if (token != NULL)
            {
                switch (token[0])
                {
                case 'a':
                    *field_num_original_url = field_num;
                    break;
                case 'k':
                    *field_num_checksum = field_num;
                    break;
                case 'u':
                    *field_num_record_id = field_num;
                    break;
                }
            }
            field_num++;
        }
    }
    return *field_num_original_url != -1
    && *field_num_checksum != -1
    && *field_num_record_id != -1;
/* Parse the CDX record and add it to the warc_cdx_dedup_table hash table. */

static void
warc_process_cdx_line (char *lineptr, int field_num_original_url,
                      int field_num_checksum, int field_num_record_id)
{
  char *original_url = NULL;
  char *checksum = NULL;
  char *record_id = NULL;
  char *token;
  char *save_ptr;
  int field_num = 0;

  /* Read this line to get the fields we need. */
  token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
  while (token != NULL)
  {
    char **val;
    if (field_num == field_num_original_url)
      val = &original_url;
    else if (field_num == field_num_checksum)
      val = &checksum;
    else if (field_num == field_num_record_id)
      val = &record_id;
    else
      val = NULL;
    if (val != NULL)
      *val = strdup (token);
    token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
    field_num++;
  }

  if (original_url != NULL && checksum != NULL && record_id != NULL)
  {
    /* For some extra efficiency, we decode the base32 encoded
     * checksum value. This should produce exactly SHA1_DIGEST_SIZE
     * bytes. */
    size_t checksum_l;
    char *checksum_v;
    base32_decode_alloc (checksum, strlen (checksum), &checksum_v,
                         &checksum_l);
    xfree (checksum);

    if (checksum_v != NULL && checksum_l == SHA1_DIGEST_SIZE)
    {
    }
  }
}
/* This is a valid line with a valid checksum. */
struct warc_cdx_record *rec;
rec = xmalloc(sizeof(struct warc_cdx_record));
rec->url = original_url;
rec->uuid = record_id;
memcpy(rec->digest, checksum_v, SHA1_DIGEST_SIZE);
hash_table_put(warc_cdx_dedup_table, rec->digest, rec);
xfree(checksum_v);
}
else
{
    xfree(original_url);
    xfree(checksum_v);
    xfree(record_id);
}
}
else
{
    xfree(checksum);
    xfree(original_url);
    xfree(record_id);
}
}

/* Loads the CDX file from opt.warc_cdx_dedup_filename and fills
the warc_cdx_dedup_table. */
static bool
warc_load_cdx_dedup_file(void)
{
    FILE *f;
    char *lineptr = NULL;
    size_t n = 0;
    ssize_t line_length;
    int field_num_original_url = -1;
    int field_num_checksum = -1;
    int field_num_record_id = -1;

    f = fopen(opt.warc_cdx_dedup_filename, "r");
    if (f == NULL)
        return false;
    return false;

    /* The first line should contain the CDX header.
Format: "CDX x x x x x"
where x are field type indicators. For our purposes, we only
need 'a' (the original url), 'k' (the SHA1 checksum) and
'u' (the WARC record id). */
    line_length = getline(&lineptr, &n, f);
    if (line_length != -1)
warc_parse_cdx_header (lineptr, &field_num_original_url,
    &field_num_checksum, &field_num_record_id);

/* If the file contains all three fields, read the complete file. */
if (field_num_original_url == -1
    || field_num_checksum == -1
    || field_num_record_id == -1)
{
    if (field_num_original_url == -1)
        logprintf (LOG_NOTQUIET,
            _("CDX file does not list original urls. (Missing column 'a').\n")
        );
    if (field_num_checksum == -1)
        logprintf (LOG_NOTQUIET,
            _("CDX file does not list checksums. (Missing column 'k').\n")
        );
    if (field_num_record_id == -1)
        logprintf (LOG_NOTQUIET,
            _("CDX file does not list record ids. (Missing column 'u').\n")
        );
} else
{
    int nrecords;

    /* Initialize the table. */
    warc_cdx_dedup_table = hash_table_new (1000, warc_hash_sha1_digest,
        warc_cmp_sha1_digest);

do
{
    line_length = getline (&lineptr, &n, f);
    if (line_length != -1)
    {
        warc_process_cdx_line (lineptr, field_num_original_url,
            field_num_checksum, field_num_record_id);
    }
}
while (line_length != -1);

/* Print results. */

nrecords = hash_table_count (warc_cdx_dedup_table);
logprintf (LOG_VERBOSE, ngettext ("Loaded %d record from CDX\n",
    "Loaded %d records from CDX\n", nrecords),
    nrecords);

xfree (lineptr);
fclose (f);
return true;
}
#endif

/* Returns the existing duplicate CDX record for the given url and payload
digest. Returns NULL if the url is not found or if the payload digest
does not match, or if CDX deduplication is disabled. */
static struct warc_cdx_record *
warc_find_duplicate_cdx_record (const char *url, char *sha1_digest_payload)
{
    struct warc_cdx_record *rec_existing;

    if (warc_cdx_dedup_table == NULL)
        return NULL;

    rec_existing = hash_table_get (warc_cdx_dedup_table, sha1_digest_payload);

    if (rec_existing && strcmp (rec_existing->url, url) == 0)
        return rec_existing;
    else
        return NULL;
}

/* Initializes the WARC writer (if opt.warc_filename is set).
This should be called before any WARC record is written. */
void
warc_init (void)
{
    warc_write_ok = true;

    if (opt.warc_filename != NULL)
    {
        if (opt.warc_cdx_dedup_filename != NULL)
        {
            if (! warc_load_cdx_dedup_file ()
                logprintf (LOG_NOTQUIET,
                           "Could not read CDX file %s for deduplication.
                           exit (WGET_EXIT GENERIC_ERROR);
            }
        }
    }

    warc_manifest_fp = warc_tempfile ()
    if (warc_manifest_fp == NULL)
    {
        logprintf (LOG_NOTQUIET,
                    "Could not open WARC manifest file.
                    exit (WGET_EXIT GENERIC_ERROR);
    }
    }
(_("Could not open temporary WARC manifest file\n"));
exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_keep_log)
{
    warc_log_fp = warc_tempfile ();
    if (warc_log_fp == NULL)
    {
        logprintf (LOG_NOTQUIET,
            _("Could not open temporary WARC log file\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
    log_set_warc_log_fp (warc_log_fp);
}

warc_current_file_number = -1;
if (! warc_start_new_file (false))
{
    logprintf (LOG_NOTQUIET, _("Could not open WARC file\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_cdx_enabled)
{
    if (! warc_start_cdx_file ()
    {
        logprintf (LOG_NOTQUIET, _("Could not open CDX file for output\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
}

/* Writes metadata (manifest, configuration, log file) to the WARC file. */
static void
warc_write_metadata (void)
{
    char manifest_uuid[48];
    FILE *warc_tmp_fp;

    /* If there are multiple WARC files, the metadata should be written to a separate file. */
    if (opt.warc_maxsize > 0)
        warc_start_new_file (true);

        warc_uuid_str (manifest_uuid);
fflush (warc_manifest_fp);

warc_write_metadata_record (manifest_uuid,

    "metadata://gnu.org/software/wget/warc/MANIFEST.txt",
    NULL, NULL, NULL, "text/plain",
    warc_manifest_fp, -1);

/* warc_write_resource_record has closed warc_manifest_fp. */

warc_tmp_fp = warc tempfile ();
if (warc_tmp_fp == NULL)
{
    logprintf (LOG_NOTQUIET, _("Could not open temporary WARC file
"));
    exit (WGET_EXIT_GENERIC_ERROR);
}
fflush (warc_tmp_fp);
fprintf (warc_tmp_fp, "%s
", program_argstring);

warc_write_resource_record (NULL,

    "metadata://gnu.org/software/wget/warc/wget_arguments.txt",
    NULL, manifest_uuid, NULL, "text/plain",
    warc_tmp_fp, -1);

/* warc_write_resource_record has closed warc_tmp_fp. */

if (warc_log_fp != NULL)
{
    warc_write_resource_record (NULL,

        "metadata://gnu.org/software/wget/warc/wget.log",
        NULL, manifest_uuid, NULL, "text/plain",
        warc_log_fp, -1);

    /* warc_write_resource_record has closed warc_log_fp. */

    warc_log_fp = NULL;
    log_set_warc_log_fp (NULL);
}

/* Finishes the WARC writing.  This should be called at the end of the program. */
void
warc_close (void)
{
    if (warc_current_file != NULL)
    {
        warc_write_metadata ();
        *warc_current_warcinfo_uuid_str = 0;
        fclose (warc_current_file);
    
        warc_current_file = NULL;
    
}
if (warc_current_cdx_file != NULL)
{
    fclose (warc_current_cdx_file);
    warc_current_cdx_file = NULL;
}

if (warc_log_fp != NULL)
{
    fclose (warc_log_fp);
    log_set_warc_log_fp (NULL);
}

/* Creates a temporary file for writing WARC output. 
The temporary file will be created in opt.warc_tempdir. 
Returns the pointer to the temporary file, or NULL. */
FILE *
warc_tempfile (void)
{
    char filename[100];
    int fd;

    if (path_search (filename, 100, opt.warc_tempdir, "wget", true) == -1)
        return NULL;

    #ifdef __VMS
    /* 2013-07-12 SMS. 
    * mkostemp()+unlink()+fdopen() scheme causes trouble on VMS, so use 
    * mktemp() to uniquify the (VMS-style) name, and then use a normal 
    * fopen() with a "create temp file marked for delete" option. 
    */
    {
        char *tfn;

        tfn = mktemp (filename);   /* Get unique name from template. */
        if (tfn == NULL)
            return NULL;
        return fopen (tfn, "w+", "fop=tmd");   /* Create auto-delete temp file. */
    }
    #else /* def __VMS */
    fd = mkostemp (filename, O_TEMPORARY);
    if (fd < 0)
        return NULL;

    #if !O_TEMPORARY
    if (unlink (filename) < 0)
    {
        close(fd);
    }
return NULL;
}
#endif

return fdopen (fd, "wb+");
#endif /* def __VMS [else] */
}

/* Writes a request record to the WARC file.
   url is the target uri of the request,
   timestamp_str is the timestamp of the request (generated with warc_timestamp),
   record_uuid is the uuid of the request (generated with warc_uuid_str),
   body is a pointer to a file containing the request headers and body.
   ip is the ip address of the server (or NULL).
   Calling this function will close body.
   Returns true on success, false on error. */
bool warc_write_request_record (const char *url, const char *timestamp_str,
                               const char *record_uuid, const ip_address *ip,
                               FILE *body, off_t payload_offset)
{
    warc_write_start_record ();
    warc_write_header ("WARC-Type", "request");
    warc_write_header_uri ("WARC-Target-URI", url);
    warc_write_header ("Content-Type", "application/http;msgtype=request");
    warc_write_date_header (timestamp_str);
    warc_write_header ("WARC-Record-ID", record_uuid);
    warc_write_ip_header (ip);
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_digest_headers (body, payload_offset);
    warc_write_block_from_file (body);
    warc_write_end_record ();
    fclose (body);

    return warc_write_ok;
}

/* Writes a response record to the CDX file.
   url is the target uri of the request/response,
   timestamp_str is the timestamp of the request that generated this response,
   (generated with warc_timestamp),
   mime_type is the mime type of the response body (will be printed to CDX),
   response_code is the HTTP response code (will be printed to CDX),
   payload_digest is the sha1 digest of the payload,
   redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
   offset is the position of the WARC record in the WARC file,
warc_filename is the filename of the WARC,
response_uuid is the uuid of the response.
Returns true on success, false on error. */
static bool
warc_write_cdx_record (const char *url, const char *timestamp_str,
const char *mime_type, int response_code,
const char *payload_digest, const char *redirect_location,
off_t offset, const char *warc_filename _GL_UNUSED,
const char *response_uuid)
{
/* Transform the timestamp. */
char timestamp_str_cdx[15];
char offset_string[MAX_INT_TO_STRING_LEN(off_t)];
const char *checksum;
memcpy (timestamp_str_cdx , timestamp_str , 4); /* "YYYY" "-" */
memcpy (timestamp_str_cdx + 4, timestamp_str + 5, 2); /* "mm" "-" */
memcpy (timestamp_str_cdx + 6, timestamp_str + 8, 2); /* "dd" "T" */
memcpy (timestamp_str_cdx + 8, timestamp_str + 11, 2); /* "HH" ":" */
memcpy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* "MM" ":" */
memcpy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* "SS" "Z" */
timestamp_str_cdx[14] = '\0';

/* Rewrite the checksum. */
if (payload_digest != NULL)
    checksum = payload_digest + 5; /* Skip the "sha1:" */
else
    checksum = ".";
if (mime_type == NULL || strlen(mime_type) == 0)
    mime_type = ".";
if (redirect_location == NULL || strlen(redirect_location) == 0)
    redirect_location = ".";
else
    redirect_location = url_escape(redirect_location);

number_to_string (offset_string, offset);

/* Print the CDX line. */
fprintf (warc_current_cdx_file, "%s %s %s %s %s %s %s %s %s %s %s %s %s %s %s
", url,
timestamp_str_cdx, url, mime_type, response_code, checksum,
redirect_location, offset_string, warc_current_filename,
response_uuid);
fflush (warc_current_cdx_file);

return true;
}
/* Writes a revisit record to the WARC file. */

const char *url, const char *timestamp_str, const char *concurrent_to_uuid, const char *payload_digest, const char *refers_to, const ip_address *ip, FILE *body

char revisit_uuid[48];
char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
char sha1_res_block[SHA1_DIGEST_SIZE];

warc_uuid_str(revisit_uuid);
sha1_stream(body, sha1_res_block);
warc_base32_sha1_digest(sha1_res_block, block_digest, sizeof(block_digest));

warc_write_start_record();
warc_write_header("WARC-Type", "revisit");
warc_write_header("WARC-Record-ID", revisit_uuid);
warc_write_header("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header("WARC-Refers-To", refers_to);
warc_write_header("WARC-Profile", "http://netpreserve.org/warc/1.0/revisit/identical-payload-digest");
warc_write_header("WARC-Truncated", "length");
warc_write_header_uri("WARC-Target-URI", url);
warc_write_date_header(timestamp_str);
warc_write_ip_header(ip);
warc_write_header("Content-Type", "application/http;msgtype=response");
warc_write_header("WARC-Block-Digest", block_digest);
warc_write_header("WARC-Payload-Digest", payload_digest);
warc_write_block_from_file(body);
warc_write_end_record();

fclose(body);

return warc_write_ok;
/* Writes a response record to the WARC file. 
url is the target uri of the request/response, 
timestamp_str is the timestamp of the request that generated this response
    (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the request for that generated this response
    (generated with warc_uuid_str),
i p is the ip address of the server (or NULL),
body is a pointer to a file containing the response headers and body.
mime_type is the mime type of the response body (will be printed to CDX),
response_code is the HTTP response code (will be printed to CDX),
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_response_record (const char *url, const char *timestamp_str,
const char *concurrent_to_uuuid, const ip_address *ip,
FILE *body, off_t payload_offset, const char *mime_type,
int response_code, const char *redirect_location)
{
char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
char payload_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
char sha1_res_block[SHA1_DIGEST_SIZE];
char sha1_res_payload[SHA1_DIGEST_SIZE];
char response_uuuid [48];
off_t offset;

if (opt.warc_digests_enabled)
{
    /* Calculate the block and payload digests. */
    rewind (body);
    if (warc_sha1_stream_with_payload (body, sha1_res_block, sha1_res_payload,
        payload_offset) == 0)
    {
        /* Decide (based on url + payload digest) if we have seen this
        data before. */
        struct warc_cdx_record *rec_existing;
        rec_existing = warc_find_duplicate_cdx_record (url, sha1_res_payload);
        if (rec_existing != NULL)
        {
            bool result;

            /* Found an existing record. */
            logprintf (LOG_VERBOSE,
                _("Found exact match in CDX file. Saving revisit record to WARCнул");

            /* Remove the payload from the file. */
            if (payload_offset > 0)
if (ftruncate(fileno(body), payload_offset) == -1)
    return false;
}

/* Send the original payload digest. */
warc_base32_sha1_digest(sha1_res_payload, payload_digest, sizeof(payload_digest));
result = warc_write_revisit_record(url, timestamp_str,
    concurrent_to_uuid, payload_digest, rec_existing->uuid,
    ip, body);

return result;
}

warc_base32_sha1_digest(sha1_res_block, block_digest, sizeof(block_digest));
warc_base32_sha1_digest(sha1_res_payload, payload_digest, sizeof(payload_digest));
}
}

/* Not a revisit, just store the record. */

warc_uuid_str(response_uuid);

fseeko(warc_current_file, 0L, SEEK_END);
offset = ftello(warc_current_file);

warc_write_start_record();
warc_write_header("WARC-Type", "response");
warc_write_header("WARC-Record-ID", response_uuid);
warc_write_header("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri("WARC-Target-URI", url);
warc_write_date_header(timestamp_str);
warc_write_ip_header(ip);
warc_write_header("WARC-Block-Digest", block_digest);
warc_write_header("WARC-Payload-Digest", payload_digest);
warc_write_header("Content-Type", "application/http;msgtype=response");
warc_write_block_from_file(body);
warc_write_end_record();

fclose(body);

if (warc_write_ok && opt.warc_cdx_enabled)
{
    /* Add this record to the CDX. */
    warc_write_cdx_record(url, timestamp_str, mime_type, response_code,
        payload_digest, redirect_location, offset, warc_current_filename,
        response_uuid);
}
/* Writes a resource or metadata record to the WARC file. 
 * warc_type is either "resource" or "metadata", 
 * resource_uuid is the uuid of the resource (or NULL),
 * url is the target uri of the resource,
 * timestamp_str is the timestamp (generated with warc_timestamp),
 * concurrent_to_uuid is the uuid of the record that generated this,
 * resource (generated with warc_uuid_str) or NULL,
 * ip is the ip address of the server (or NULL),
 * content_type is the mime type of the body (or NULL),
 * body is a pointer to a file containing the resource data.
 * Calling this function will close body.
 * Returns true on success, false on error. */
static bool
warc_write_record (const char *record_type, const char *resource_uuid,
const char *url, const char *timestamp_str,
const char *concurrent_to_uuid,
const ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
  if (resource_uuid == NULL)
    {
      /* using uuid_buf allows const for resource_uuid in function declaration */
      char *uuid_buf = alloca (48);
      warc_uuid_str (uuid_buf);
      resource_uuid = uuid_buf;
    }
  if (content_type == NULL)
    content_type = "application/octet-stream";
  warc_write_start_record ();
  warc_write_header ("WARC-Type", record_type);
  warc_write_header ("WARC-Record-ID", resource_uuid);
  warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
  warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
  warc_write_date_header (timestamp_str);
  warc_write_ip_header (ip);
  warc_write_digest_headers (body, payload_offset);
  warc_write_header ("Content-Type", content_type);
  warc_write_block_from_file (body);
  warc_write_end_record ();
fclose (body);

return warc_write_ok;
}

/* Writes a resource record to the WARC file.
 resource_uuid  is the uuid of the resource (or NULL),
 url  is the target uri of the resource,
 timestamp_str  is the timestamp (generated with warc_timestamp),
 concurrent_to_uuid  is the uuid of the record that generated this,
 resource (generated with warc_uuid_str) or NULL,
 ip  is the ip address of the server (or NULL),
 content_type  is the mime type of the body (or NULL),
 body  is a pointer to a file containing the resource data.
 Calling this function will close body.
 Returns true on success, false on error. */
bool
warc_write_resource_record (const char *resource_uuid, const char *url,
 const char *timestamp_str, const char *concurrent_to_uuid,
 const ip_address *ip, const char *content_type, FILE *body,
 off_t payload_offset)
{
    return warc_write_record ("resource",
        resource_uuid, url, timestamp_str, concurrent_to_uuid,
        ip, content_type, body, payload_offset);
}

/* Writes a metadata record to the WARC file.
 record_uuid  is the uuid of the record (or NULL),
 url  is the target uri of the record,
 timestamp_str  is the timestamp (generated with warc_timestamp),
 concurrent_to_uuid  is the uuid of the record that generated this,
 record (generated with warc_uuid_str) or NULL,
 ip  is the ip address of the server (or NULL),
 content_type  is the mime type of the body (or NULL),
 body  is a pointer to a file containing the record data.
 Calling this function will close body.
 Returns true on success, false on error. */
bool
warc_write_metadata_record (const char *record_uuid, const char *url,
 const char *timestamp_str, const char *concurrent_to_uuid,
 ip_address *ip, const char *content_type, FILE *body,
 off_t payload_offset)
{
    return warc_write_record ("metadata",
        record_uuid, url, timestamp_str, concurrent_to_uuid,
        ip, content_type, body, payload_offset);
}
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#!/usr/bin/env python
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#
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#
# """Makes sure that all files contain proper licensing information."""

import optparse
import os.path
import subprocess
import sys
def PrintUsage():
    print('''Usage: python checklicenses.py [--root <root>] [tocheck]
--root Specifies the repository root. This defaults to ".." relative
to the script file. This will be correct given the normal location
of the script in "<root>/tools".

--ignore-suppressions Ignores path-specific license whitelist. Useful when
trying to remove a suppression/whitelist entry.

tocheck Specifies the directory, relative to root, to check. This defaults
to "." so it checks everything.

Examples:
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party'''
)

WHITELISTED_LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL (v2 or later)',
    'BSD (3 clause)',
    'GPL (v2 or later)',
    'GPL (v3 or later) (with Bison parser exception)',
    'ISC',
    'ISC GPL (v2 or later)',
    'LGPL (v2 or later)',
    'LGPL (v2.1 or later)',
    'MIT/X11 (BSD like)',
    'Public domain',
    'Public domain GPL (v2 or later)',
    'Public domain MIT/X11 (BSD like)',
    'zlib/libpng',
    'zlib/libpng GPL (v2 or later)',
]

PATH SPECIFIC WHITELISTED LICENSES = {
    'caputils/airpcap.h': [
        'BSD-3-Clause',
    ],
    'wsutil/strnatcmp.c': [
        'Zlib',
    ],
    'wsutil/strnatcmp.h': [
        'Zlib',
    ],
}
'UNKNOWN',
],
'epan/dfilter/grammar.c': [
    'UNKNOWN',
],
'epan/dissectors/packet-dtn.c': [
    'GPL (v2 or later) GPL (v2 or later)' # TODO: make licensecheck handle this better
],
'epan/dissectors/packet-ieee80211-radiotap-iter.c': [# Using ISC license only
    'ISC GPL (v2)'
],
'epan/dissectors/packet-ppi.c': [# Using BSD (3 clause) license
    'BSD (3 clause) GPL (v2)'
],
'plugins/mate/mate_grammar.h': [
    'UNKNOWN',
],
'version.h': [
    'UNKNOWN',
],
# Special IDL license that appears to be compatible as far as I (not a
# lawyer) can tell. See
# https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
'epan/dissectors/pidl/idl_types.h': [
    'UNKNOWN',
],
# Written by Ronnie Sahlberg and correctly licensed, but cannot include
# a license header despite the file extension as they need to be
# parsed by the pidl tool
'epan/dissectors/pidl/mapi/request.cnf.c': [
    'UNKNOWN',
],
'epan/dissectors/pidl/mapi/response.cnf.c': [
    'UNKNOWN',
],
# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': [
    'UNKNOWN',
],
'tools/lemon': [
    'UNKNOWN',
],
'tools/licensecheck.pl': [
    'GPL (v2)'
],
# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': [          
'UNKNOWN',
].
'uigtk/wireshark-gresources.c': [ 'UNKNOWN',
].
# The airpcap code is using BSD (3 clause)
'epan/crypt/dot11decrypt_interop.h': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt_tkip.c': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt_ws.h': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/wep-wpadefs.h': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt_system.h': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt_user.h': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt_ccmp.c': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt_int.h': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt.c': [ 'BSD (3 clause) GPL (v2)' ]
'.epan/crypt/dot11decrypt_debug.h': [ 'BSD (3 clause) GPL (v2)' ]
'.wsutil/dot11decrypt_wep.c': [ 'BSD (3 clause) GPL (v2)' ]
].

```python
def check_licenses(options, args):
    # Figure out which directory we have to check.
    if len(args) == 0:
        # No directory to check specified, use the repository root.
        start_dir = options.base_directory
    elif len(args) == 1:
        # Directory specified. Start here. It's supposed to be relative to the
            ```
# base directory.

```python
start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
```

else:

```python
# More than one argument, we don't handle this.
PrintUsage()
return 1
```

```python
print("Using base directory: %s" % options.base_directory)
print("Checking: %s" % start_dir)
print("\\\\n")
```

```python
licensecheck_path = os.path.abspath(os.path.join(options.base_directory, 'tools', 'licensecheck.pl'))
licensecheck = subprocess.Popen([licensecheck_path, '-f', '150', '-r', start_dir], stdout=subprocess.PIPE, stderr=subprocess.PIPE)
stdout, stderr = licensecheck.communicate()
```

```python
if sys.version_info[0] >= 3:
    stdout = stdout.decode('utf-8')
    stderr = stderr.decode('utf-8')
```

```python
if options.verbose:
    print('----------- licensecheck stdout -----------')
    print(stdout)
    print('--------- end licensecheck stdout ---------')
```

```python
if licensecheck.returncode != 0 or stderr:
    print('----------- licensecheck stderr -----------')
    print(stderr)
    print('--------- end licensecheck stderr ---------')
    print("
    FAILED
    ")
    return 1
```

```python
success = True
exit_status = 0
```

```python
for line in stdout.splitlines():
    filename, license = line.split(':', 1)
    filename = os.path.relpath(filename.strip(), options.base_directory)
```

```python
# All files in the build output directory are generated one way or another.
# There's no need to check them.
if filename.startswith('out/') or filename.startswith('sconsbuild/):
    continue
```

```python
# For now we're just interested in the license.
license = license.replace("*No copyright*", ").strip()
```
# Skip generated files.
if 'GENERATED FILE' in license:
    continue

if license in WHITELISTED_LICENSES:
    continue

if not options.ignore_suppressions:
    found_path_specific = False
for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
    if (filename.startswith(prefix) and
        license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
        found_path_specific = True
    break
if found_path_specific:
    continue

reason = "'%s' has non-whitelisted license '%s'" % (filename, license)
success = False
print(reason)
exit_status = 1

if success:
    print("unSUCCESSful")
    return 0
else:
    print("unFAILED")
    return exit_status

def main():
    default_root = os.path.abspath(
        os.path.join(os.path.dirname(__file__), '..'))
option_parser = optparse.OptionParser()
option_parser.add_option('--root', default=default_root, 
dest='base_directory', 
    help='Specifies the repository root. This defaults ' 
    'to "../.." relative to the script file, which ' 
    'will normally be the repository root.')
option_parser.add_option('-v', '--verbose', action='store_true', 
default=False, help='Print debug logging')
option_parser.add_option('--ignore-suppressions', 
    action='store_true', 
    default=False, 
    help='Ignore path-specific license whitelist.')
options, args = option_parser.parse_args()
return check_licenses(options, args)
if '__main__' == __name__:
    sys.exit(main())

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================

1. Extra packages required
   2. Compiling Wireshark
   3. Berkeley Packet Filter (BPF) requirement
   4. Running Wireshark as a non-root user

1. Extra packages required
   ---------------------------
Wireshark requires a number of additional programs to function. 
Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

- glib 2.16 or later:
  ftp.gnome.org:/pub/gnome/sources/glib/

- pkgconfig:
  http://pkgconfig.freedesktop.org/releases/

- python 2.5 or later:
  https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

- gtk+ 2.12 or later:
  ftp.gnome.org:/pub/gnome/sources/gtk+/

- Qt 4.7 or later:
  http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. 
These can be found by typing ./configure --help or looking at the output at the end of running the configure script.
2. Compiling Wireshark
----------------------
To compile Wireshark with the default options, run configure, make and
make install (you may have to run "autogen.sh" first):

    ./configure
    make
    make install

The configure and make steps can be run as a non-root user and you can
run Wireshark from the compilation directory itself. You must run make
install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any
other packet capture program) on a BSD system, your kernel must have the
Berkeley Packet Filter mechanism enabled. The default kernel
configurations in recent versions of BSD systems have this enabled
already. To verify the bpf device is present, look in the /dev
directory:

    ls -l /dev/bpf*

You should see one or more bpf devices listed similar to this:

    crw------- 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
    crw------- 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1

Packet-capturing programs will pick the first bpf device that's not in
use. Recent versions of most BSDs will create bpf devices as needed, so
you don't have to configure the number of devices that will be
available.

4. Running wireshark as a non-root user
------------------------------------------
Since the bpf devices are read-only by the owner (root), you normally
have to run packet capturing programs such as Wireshark as root. It is
safer to run programs as a non-root user if possible. To run Wireshark
as a non-root user, you must change the permissions on the bpf device(s).
If you are the only user that needs to use Wireshark, the easiest way
is to change the owner of each bpf device to your username. You can also
add the read/write ability to the group (typically wheel) and add users
that need to use Wireshark to the wheel group. Check your operating
system's documentation on how to make permanent these changes as they
are often reset upon reboot; if /dev is implemented with devfs, it might
be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

mode {octal permissions}

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

user {user}

to set the user who owns the device, or

group {group}

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

--- a/ui/gtk/about_dlg.c
+++ b/ui/gtk/about_dlg.c
@@ -522,7 +522,7 @@
 #if defined(_WIN32)
     absolute_path = get_datafile_path("COPYING.txt");
 #else
-   absolute_path = get_datafile_path("COPYING");
+   absolute_path = get_datafile_path("ABOUT.GPL");
 #endif
     page = text_page_new(absolute_path);

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
 #if defined(_WIN32)
     f_license.setFileName(get_datafile_path("COPYING.txt"));
 #else
-    f_license.setFileName(get_datafile_path("COPYING"));
+    f_license.setFileName(get_datafile_path("ABOUT.GPL"));
 #endif

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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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1.356 yajl 2.1.0 :r0

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1.357 zlib 1.2.11 :r0

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